

December 6, 2011

WATERBURY OFFICE COMPLEX
FEASIBILITY STUDY
TECHNICAL PROPOSAL

NADAAA

Kane Architecture

Simpson, Gumpertz & Heger

Engineering Ventures

Pearson & Associates

Liz Pritchett Associates

Landworks Studio

Faithful + Gould

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December 6, 2011

Deborah Damore
State of Vermont, Office of Purchasing and Contracting
10 Baldwin St.
Montpelier, VT 05633-7501

Re: Waterbury Office Complex- Feasibility Study

Dear Ms. Damore,

NADAAA, Inc. is pleased to submit our qualifications for the Waterbury Office Complex- Feasibility Study. We propose to lead a multi-disciplinary team with expertise in urban design, land use, and development master planning. Ultimately it will be the State of Vermont and the communities surrounding the office complex who enable the successful evolution of the State's presence in Waterbury; the NADAAA team will facilitate the process and provide our unique vision.

NADAAA is a new venture for us, started in 2011 as a platform for design investigation at a greater scale and with a significant geographic reach. The firm was spun-off of Office dA, where principal Nader Tehrani was founding partner for 25 years. NADAAA maintains the same commitment to progressive design and advancement of architecture, with an approach that relies on research and analysis. Many of the projects featured in this brochure were designed with Office dA, including Boston's Macallen Building, one of the United States' first LEED Gold multi-family housing projects, and the recipient of numerous awards, as well as RISD Library which also received many accolades for excellence in design and historic preservation.

For this project, we will collaborate closely with our long-time collaborator Simpson, Gumpertz, and Heger, who bring expertise in Building Science and who are uniquely qualified to assess the existing building envelopes. We also will work closely with Landworks Studio as landscape architect, and Kane Architecture as local architect. NADAAA has domestic and overseas urban design experience, Engineering Ventures and Kane Architecture bring specific experience of working in Vermont with local developers and towns to develop smart growth planning strategies. We have also included Atelier Ten as a possible additional consultant, should the State require an extra level of sustainable master planning expertise. With this team we can understand the limits and possibilities for growth and reuse.

We look forward to the opportunity to work with the State of Vermont. Please contact me if you have questions or require additional information.

Regards,

A handwritten signature in black ink, appearing to read "K W Faulkner", with a stylized, flowing script.

Katherine W. Faulkner, AIA, LEED AP
Principal

t: 617-442-6232
e: kfaulkner@nadaaa.com

EXECUTIVE SUMMARY

Criterion 1: Credentials and Qualifications

•Has the team had experience with similar master planning projects of this scope and magnitude?

NADAAA relevant master planning:

- o GSA Land Port of Entry, Madawaska, ME, 2008
- o Menil Collection, Master Site Plan, 2009
- o Tulane University, 2009
- o Pieter en Pauwel Woonzorgcentrum, 2008
- o Thunder Stadium, MN 2008
- o Collier Quay, 2006
- o Master Plan, Kuwait Al Sharq, 2005

In 2010-11, Katherine Faulkner, AIA led the evaluation and master planning effort for an 8 week study for Yale New Haven Hospital as they considered a merger with another area hospital. This confidential report was developed after a team of architects and engineers investigated over 1 million square feet of buildings in order to determine their remaining useful life and to plan for the expansion of patient services. Several properties were involved. The final report contained plans, sections, elevations, diagrams, parking analysis and opinions of probable cost.
Reference Norman Roth, Bridgeport Hospital
This project was done with Shepley Bulfinch.

SGH was specifically selected as team member because of their strength in Master Planning and Building Science engineering. Their qualifications are listed in the Credentials section.

•Has the team had experience with LEED rated system projects?

NADAAA LEED rated projects:

- o University of Melbourne, School of Architecture, Green-Star (AUS Green Standard), Pending 2013
- o Macallen Building, 2007: LEED Gold
- o Helios House, 2007: LEED Certified

Kane Architecture

- o 35 Railroad Row, White River, VT - 2010 LEED Silver

SGH LEED rated projects:

- o California Academy of Sciences at Golden Gate Park, San Francisco, CA - 2008 LEED Platinum
- o Internal Revenue Service, Andover, MA - 2012 LEED cert.
- o Harvard University, University Commons, Cowperthwaite Hall, Cambridge, MA - LEED Gold

Atelier Ten LEED rated projects:

- o Columbia University, Manhattanville Expansion, Phase 1
- o Langone Medical Center Masterplan, New York University,
- o Yale University, Stoeckel Hall, New Haven, CT

Landworks Studio LEED rated projects:

- o United States Border Crossing, Madawaska, ME - 2012 LEED Silver
- o Children's Hospital of Boston, Boston, MA - 2011 LEED Gold
- o 200 5th Avenue, L&L Holding Co., New York, NY - 2010 LEED Gold

Engineering Ventures:

- o Aiken Hall, University of Vermont, Burlington, VT - 2012 LEED Platinum
- o Dartmouth College Life Sciences Building, Hanover, NH - 2011 LEED Platinum
- o Putney School Field House, Putney, VT - 2009, LEED Platinum

Pearson and Associates:

- o Green Mountain Power Offices, Montpelier, VT - LEED Certified

•Has the team had experience with high efficiency energy projects? What metric was used to measure/verify the "high energy" efficiencies?

All team members have experience with high efficiency energy projects, the metrics used ranged from LEED certification to BREEAM assessment (UK).

•Has team had experience with historic building analysis and restoration?

Liz Pritchett Associates brings to the team a strong resume in Historic Preservation and Architectural Conservation. Her list of relevant experience is included in the Credentials section.

NADAAA relevant experience: RISD Library in the historic Fleet Bank Building (see subsequent project sheet)

•Has team had experience with flood proofing existing and/or new buildings?

Engineering Ventures brings extensive flood proofing experience ranging from Burnham Hall in Lincoln, VT to a General Electric facility in Schenectady, NY.

SGH brings building science expertise (waterproofing, enclosure review); most recently Matt Johnson, SGH principal, completed a water-proofing enclosure exercise at Mt. Holyoke College Boat House.

Criterion 2: Strength of Design Team

- Team shall designate, in writing, a team leader to serve until the expiration of any resulting contract. The team leader will be Katherine Faulkner, Principal from NADAAA. She will serve as point person for the integrated team throughout the project.

•Has the team won any awards for green building design or energy conservation?

NADAAA has won several awards for LEED buildings the Macallen Building and Helios House, as well as recognized for sustainable adaptive reuse on the RISD library.

•Has the team demonstrated that they have a solid understanding of the technical aspects of the project?

The State of Vermont needs office space for 1,500 displaced employees and must immediately assess the cost effectiveness of reusing the existing, flood damaged building stock (ranging in age from 2 to 122 years old) on campus. This eight week study documents the details of the structure, enclosure, MEP/FP, floor plan constrictions, opportunities and the related costs. The solution may be a full rehabilitation, a combination of existing and new structures, or perhaps the optimal solution requires all new construction.

In taking the necessary steps to remobilize the State employees, opportunities present themselves to improve the office environment by modernizing office space and improving efficiencies. Renovation of the complex offers the State the chance to extend the useful life of existing building stock, update systems for superior sustainability, while making use of their unique site with other energy-related improvements.

•Has the team worked together before?

NADAAA, Inc. and SGH have worked on several projects together including: Macallen, RISD, and nearly all of our interior renovation work. Most recently we are working on three residential projects. NADAAA and Patrick Kane have pursued several projects together; Project Architect Harry Lowd (NADAAA) worked with Kane Architecture on several schools, an industrial building, and smaller residential projects all in Vermont. NADAAA and Landworks Studio have been collaborating together for many years, on projects from the GSA Border Crossing to the Court Square Press Building.

The local project team Kane Architecture (KA), Engineering Ventures (EV), Pearson & Associates (P&A) and Liz Pritchett Associates (LPA) have all worked together over the years successfully completing projects. For example, KA, P&A and LPA are currently working together on an affordable housing project in St. Johnsbury. KA and P&A recently completed a LEED certified, "Advanced Building" office building in White River. All the team members have been practicing in the state for many years and have a good understanding of the local conditions having worked with many of the local contractors and sub-contractors.

•What experience has the team had with designing to "Advanced Buildings" protocol and "High Performance Design Guidelines"?

Pearson and Associates, Kane Architecture, and Engineering Ventures all have extensive experience with "Advanced Buildings" protocol and "High Performance Design Guidelines", and have worked in collaboration with each other on such projects. Their experience includes work on the State of Vermont Public Safety Building, Waterbury, VT, the Downtown Bennington State Office Building, and the Vermont Secretary Of State Archive and Records Administration Building in Middlesex, VT, an "Advanced Building" office building in White River Junction.

•Has the team successfully designed biomass heating or co-generation facilities?

Pearson & Associates along with Kane Architecture have both completed successful bio-mass heating and co-gen facilities in Vermont and New York.

- Has the team had experience with ground water source heating and cooling systems?

Pearson & Associates has extensive ground water source heating and cooling experience with projects at Stowe Mountain Resort, Green Mountain Power

- Has the team had experience with large scale solar PV systems?

SGH Credentials list approximately 40 projects for solar photovoltaics system design.

- Does the team include the services of a qualified architectural historian?

Liz Pritchett has twenty years of experience in the field of Historic Preservation. She has worked as a Survey Historian for the Vermont Division for Historic Preservation, where she documented hundreds of Vermont structures and developed her expertise in Vermont and New England architecture. She has a Master of Science degree in Historic Preservation from the University of Vermont. In 1992 she established Liz Pritchett Associates.

Criterion 3: Ability to Meet Schedule

- Has the team established a detailed schedule for the project?

The schedule is included under a separate tab.

- Does the team have sufficient staff to perform in a timely manner?

NADAAA and the consultants are ready to begin this project immediately. Reports must be submitted no later than March 2, 2012, and the schedule assumes a January 2 start. NADAAA and Kane Architects built a team both to provide expertise and ensure immediate response during the eight weeks should interim meetings be required on short notice.

- Can the team produce reports, documents and drawings within the desired time frame?

NADAAA regularly produces reports, documents, and drawings with short-turnaround, and in a variety of formats. Our staff has graphic expertise to ensure that the information is communicated clearly and in a straightforward manner, appropriate for review by lay committees and the public.

Criterion 4: Project Approach

- Has the team identified how they will approach the project?

Please see the Project Approach section.

- What difficulties have they identified?

The eight week time frame is a challenge, as well as understanding the priorities of the State for the existing complex. For example, a new master plan can simply be a square footage and programming

- How will they address those difficulties?

Please see the Project Approach section.

Criterion 5: Fee Structure

- Is the fee competitive?

Please see the Sealed Bid



PROJECT APPROACH

Each of the requested development schemes require significant analysis of the existing built and environmental fabrics prior to finding a sustainable design solution. Before developing each of the three options, our team will perform two types of systematic analysis:

Building Analysis:

Each of the 48 buildings in the complex will need to go through a rigorous analysis to understand highest and best use. Due the size, variety of materials, and varied age of construction, the analysis will establish a rating system with regard to rehabilitation potential to include:

- Physical and systems analysis (structure, envelope, systems)
- Historic significance
- Opportunities for enhancement (sustainability, alternate program)
- Flood plain and storm water management
- Operational efficiency: paths of travel, traffic, planning opportunities

Program Analysis:

The State has outlined its intention to house the 1500 displaced State employees and associated agencies; the program analysis will provide the groundwork for three development scenarios: full renovation, partial renovation with new construction, and an entirely new facility

- State agencies space and adjacency requirements
- Appropriate alternate programs for sites (education, housing, retail, green technology)
- Land use analysis
- Identification of possible synergies between State and alternative programs
- Possible public/private partnerships

In addition to the above, the team will review other available documentation provided by the State including, but not limited to surveys, floor plans, balancing reports, energy use data, demographic information, and other related assessments/reports.

In addition to providing Master Planning and design oversight, NADAAA, Inc. will manage the integrated consultant team for the eight week investigation. We have put together a team of experts, and all of us understand the importance of maintaining clear communication, keeping on schedule, and coordinating our work with State of Vermont stakeholders. Our integrated team approach demands close working relationship with the State of Vermont project stakeholders. Clients bring a level of insider know-how to projects that cannot be matched by the consultant team. To that end, NADAAA has developed a methodology that allows our client group to be our greatest collaborator, and organizes the design process around the inclusion of a variety of groups so as to promote and encourage participation. The groups include the following:

- Steering Group** (Two - Four people providing leadership and management, meet regularly with team)
- Design Review Group** (Six - Twelve people that review design at various stages and set goals for the overall process),
- Focus Groups or Key individuals** (Developed in consultation with the steering committee, often comprised of citizen groups, facilities and maintenance groups, and business stakeholders.)

Design Process:

The design process is driven by the architect and client, with critical expertise from consultants and other stakeholders. Our goal is to make this both an efficient and innovative process, to that end we work with certain goals in mind:

o Cross- pollination among disciplines:

Our project team brings broad expertise, ideal for evaluating multiple scenarios - developing design ideas concurrently, allowing for each to feed off of the other, while simultaneously creating a means of evaluating.

o Streamline Information:

As project lead, NADAAA will be responsible for filtering and digesting all the information gathered and learned. Through a **project website/blog** we will disseminate all information enabling a quick and productive transfer of information and ideas; creating an ongoing dialogue outside of formal meeting.

o Clear Benchmarks:

The scope and complexity of this job will require a discipline both in design and review, and creating clear benchmarks in the process is essential. The schedule laid out on the following page elaborates on how we will meet the State's requirements.

Week 1: Project Definition

Review and accept Benchmark Schedule

Articulate Project Goals

Develop the criteria by which each development option will be evaluated. For example:

- Does the current/planned use support the “highest and best use” for the building?
- Is sustainable technology integral to the project?
- Has there been adequate risk assessment within the context of Hurricane Irene or other natural disasters?
- Does the space created enhance the daily life of the occupants?
- Is the planned project fiscally responsible?

Representative s from each consultant team will spend several days on site, reviewing all relevant real estate and meeting with designated State project stakeholders. The Cost Estimators will be involved from the beginning, attending all team-wide meetings, in order to ensure the cost estimates are as thorough as possible.

Weeks 2-5: Concept Development

Sub-teams to collaborate on three scenarios:

Return and Full Re-use:

- Sustainable opportunities to further the State’s commitment to advanced buildings
- Consolidation of State offices to allow for overlaps and collaboration between agencies
- Preservation of the existing historic fabric while

engaging cutting edge technology

- Enhancement of campus through flood protection measures

Multi-Use:

- Create a campus which incubates innovative businesses and creates jobs
- Promote an integration between the Waterbury community and the State office community
- Develop high efficiency buildings which will guide the State’s commitment to sustainability
- Use of new structures as flood protection devices

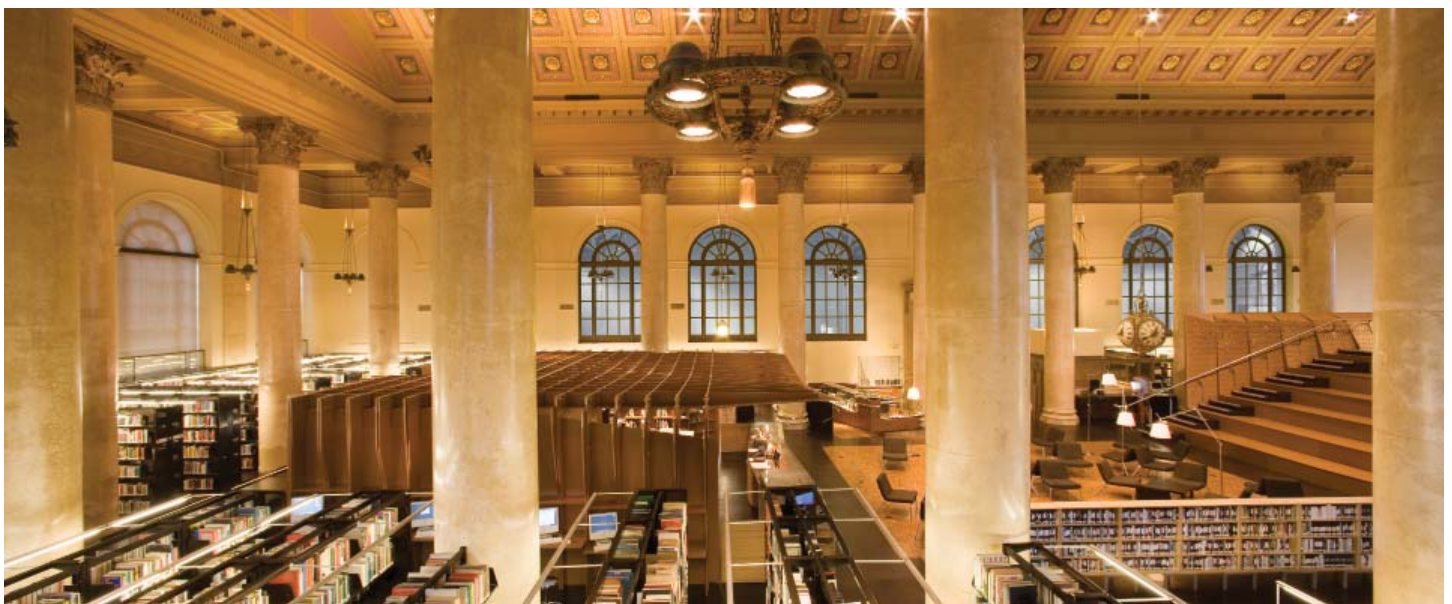
New Off Site Building:

- Develop high efficiency building(s) which will guide the State’s commitment to sustainability
- Consolidation of State offices to allow for overlaps and collaboration between agencies
- Choose a site which can allow for public-private sector relationships and innovation.

At the end of Week 5, a comprehensive preliminary package including diagrams, plans, massing studies, and specification information to be published for the comprehensive team for preliminary review by project representatives, preliminary costing , and interdisciplinary coordination. NADAAA, Inc. will lead a series for formal progress presentations and solicit feedback from project representatives.

Weeks 5-7: Further development of designs and reports based on feedback

Week 8: Submit final documents and recommendations to the State of Vermont.



Fleet Library, Rhode Island School of Design

PROJECT TEAM

NADAAA LEAD ARCHITECT

1920 Washington St, #2
Boston, MA 02118
www.nadaaa.com

NADAAA is a Boston-based design firm led by designer Nader Tehrani, with partners Katherine Faulkner and Daniel Gallagher. Spun off from Office dA, NADAAA represents an expanded platform for design investigation at a larger scale and with a greater geographic reach. Consistent with Office dA's work, NADAAA's projects range in scale from furniture to urban design, with a focus on architectural craft, construction, and fabrication. NADAAA advances professionally on two specific fronts: the dedication to integrated technologies and green development. Sustainable design is part of NADAAA's foundational ethics, binding it to our design process, and finding innovative ways in which to intertwine it into building systems and plans.

As the founding principal of Office dA, Nader Tehrani directed twenty-five years of intensive design research, was widely published and exhibited, and received numerous awards. With Office dA, Tehrani completed the first LEED Gold certified, multi-family housing building in Boston, and the first LEED rated gas station in the United States. He received the Cooper-Hewitt National Design Award in Architecture, the American Academy of Arts and Letters Architecture Award, the Harleston Parker Award, numerous AIA awards, and 13 Progressive Architecture awards. His work has been exhibited at institutions including the Museum of Modern Art, the Boston Institute of Contemporary Art and LA MoCA. Tehrani is also the Head of the Architecture Department at MIT where he collaborates with other disciplines in support of the building sciences and continues to be recognized as a global leader.

NADAAA's staff of twenty designers brings expertise from academia, graphic design, construction, and business. NADAAA is developing a portfolio of projects around the world that requires optimized project delivery, currently with projects in the US, Korea, China, Australia, Canada, and France. Our technical expertise with production technologies enables our teams to operate on many fronts with tight budgets and deadlines. The firm successfully develops projects by collaborating closely with local architects and engineers to ensure clear communication and strong project management, by working with state of the art digital fabrication processes and locally available manufacturing crafts.

• Name of firm:
NADAAA, Inc.

• Form of business entity:
Corporation

• State of incorporation:
Massachusetts

• Office address and telephone number:
1920 Washington St, #2
Boston, MA 02118
617-442-6232

• During the last five (5) years, has the Architectural/engineer design firm or any sub-consultant been assessed any penalties under any existing or past contracts?
NONE

• During the last five (5) years has the Architectural/engineer design firm or any sub-consultant been the subject of any order, judgment or decree of any federal or state authority barring, suspending or otherwise limiting the right of the Architectural/engineer design firm/sub-consultant to engage in any business, practice or activity.
NONE

• Provide a list and summary of any pending or threatened litigation, administrative or regulatory proceedings and
NONE

RANKINGS:

#5 - Ten Most Innovative Companies in Architecture
Fast Company Magazine, 2010
#68 - Top 100 U.S. Architecture Firms
Architect Magazine, 2010
#58 - Top 100 U.S. Architecture Firms
Architect Magazine, 2009
Best of Business Award
Small Business Commerce Association, 2009

DESIGN AWARDS:

20 National/Local AIA Awards
5 I.D. Magazine Awards
13 Progressive Architecture Awards

HONORS/DISTINCTIONS

National Design Award, Architecture
Smithsonian Institution, Cooper-Hewitt National Design
Museum, 2007
Architecture and Design Fellowship
United States Artists, 2007
Award of Excellence
Congress for the New Urbanism, Chapter Awards, 2005
Harleston Parker Award, 2002
Award in Architecture
American Academy of Arts and Letters, 2002
Young Architects Award
The Architectural League of New York, 1997

KANE ARCHITECTURE
ASSOCIATE ARCHITECT

P.O. Box 2, 1055 Hardwick Farms Road
East Hardwick, Vermont 05836
kanearchitecture.com

As the local architect, Kane Architecture will play a central role in developing an integrated design approach that engages the local stakeholders in the process, and ensures that final vision has an integrated approach to form based code and ecological infrastructure.

Patrick Kane, Architect will be the Kane Architecture team leader. Patrick has over eighteen years of experience in practice, having worked for firms in Minneapolis and Connecticut, in addition to a number of firms in Vermont, before starting Kane Architecture. Patrick has experience with multi-team urban projects including a housing district redevelopment plan along the Mississippi river in Minneapolis, a multi-use redevelopment project along the Colorado River in Bull Head City, Arizona, the waterfront housing project in Burlington and a mixed-use redevelopment along the White River, in White River Junction.

Kane Architecture specializes in the integration of the built and natural environments. We have made a personal commitment to downtown revitalization projects in Vermont. We approach form based code with a focus on building masses that respond to local conditions, which include climate, hydrology and solar orientation, in addition to local architectural traditions. We would bring expertise in regenerative landscapes and natural water systems to the team.

SIMPSON, GUMPERTZ & HEGER
STRUCTURAL ENGINEER/ ENVELOPE ENGINEERING

41 Seyon Street
Building 1, Suite 500
Waltham, MA 02453
www.sghcom

Simpson Gumpertz & Heger (SGH) is a national design and consulting engineering firm called upon by clients worldwide to provide creative and efficient solutions for challenging assignments. With more than 400 employees in offices in New York, Boston, Washington, DC, San Francisco, and Los Angeles, we offer highly qualified staff who are sensitive to the demands of schedule and budget and take pride in developing timely and economical solutions to engineering challenges.

SGH designs, investigates, and rehabilitates structures and building enclosures. Technical capabilities include: preservation technology; building envelope engineering; building science; materials science; structural engineering; engineering mechanics; concrete technology; field and laboratory testing; and construction engineering.

SGH has extensive experience in historic structures research and condition report writing. We have conducted historic site surveys throughout the country as part of our Building Technology investigation and remediation services.

SGH provides reports on historic structures for use in preparing conservation master plans, due diligence, cost estimates, and the development of contract documents for repair and rehabilitation. The scope of these reports includes survey, documentation and investigation; material and structural condition assessment and analysis; investigation of water intrusion; evaluation of interiors; and the development of appropriate conservation treatment programs.

ENGINEERING VENTURES
CIVIL ENGINEER

208 Flynn Ave., Suite 2A
Burlington, VT 05401
www.engineeringventures.com

Engineering Ventures has a progressive history of sustainable design and LEED certified projects that have incorporated high performance thermal envelopes, efficient as well as locally manufactured and recycled material use, and innovative water supply and stormwater management techniques.

We have substantial experience and a strong reputation with historic buildings. Two of Engineering Ventures' principals have focused substantially on historic preservation projects for over 25 years in Vermont using thorough field documentation techniques and a practical approach to developing repairs. Engineering Ventures has performed hundreds of building assessments throughout Vermont, New Hampshire, and New York. Many of these are through the Preservation Trust of Vermont and include town and state offices, town halls, churches, museums, farm buildings, and residences. Last month we were called on, with short notice, to send 4 of our staff out to judge conditions at 20+ buildings for the Preservation Trust of Vermont in communities from Waterbury to Wilmington, as well as calls to other private and public clients, following the damage done by Hurricane Irene.

Engineering Ventures, PC is an experienced, consulting engineering firm operating and licensed in Vermont, New Hampshire, New York and surrounding states. Select, qualified professionals and technicians provide a broad range of civil engineering services with specialties in structural and site engineering, permitting and planning. Serving both private and public clients, Engineering Ventures offers service from the office headquartered in Burlington, Vermont, as well as offices in Lebanon, New Hampshire, and Saratoga Springs, New York. Engineering Ventures has been incorporated since 1994. Its principals' project and firm ownership history is effectively 30+ years in the Burlington area.

PEARSON & ASSOCIATES
MEP ENGINEER

P.O. Box 610
174 Thomas Lane
Stowe VT 05672
www.pearsonandassociates.com

Pearson & Associates is committed to the conservation of our present energy resources and in the wise and economical development of alternate energy sources. Our design work has traditionally involved energy-conscious techniques and methods.

Pearson & Associates has over twenty year experience in providing mechanical and electrical engineering services at the Waterbury Complex for the Department of Buildings and General Services

Pearson & Associates has a background in the evaluation, design and review of heating, ventilation, air conditioning, domestic hot water, electrical and process systems for commercial, industrial, institutional and municipal buildings.

Mechanical/electrical design projects involve special requirements that demand special considerations. Some of those considerations include the physical limitations imposed by the process or site, code requirements, safety of equipment and personnel, energy efficiency, and cost effectiveness of the design.

The mechanical / electrical design team has worked on Projects with the LEED rating system and is familiar with and can apply the guidelines and requirements for LEED mechanical and electrical systems.

LIZ PRITCHETT ASSOCIATES
HISTORIC PRESERVATION CONSULTANT

46 East State Street
Montpelier, VT

Liz Pritchett has twenty years of experience in the field of Historic Preservation. Early in her career as a Survey Historian for the Vermont Division for Historic Preservation, Liz documented hundreds of Vermont structures and developed her expertise in Vermont and New England architecture. Liz has nominated many properties to the National Register of Historic Places. In 1992 Liz received a Master of Science degree in Historic Preservation from the University of Vermont. That same year she established Liz Pritchett Associates, a sole-proprietorship registered in the State of Vermont.

Liz has provided historic preservation planning services for a number of educational institutions, including the University of Vermont, Champlain College, and Bennington College. She is currently working as project supervisor to develop a Campus Preservation Plan for Marlboro College funded by the Getty Foundation. She recently assisted the University of Vermont with their University Commons project involving construction of a large student union and new theater complex, the preservation of significant historic structures in the project area, as well as moving one of the earliest buildings in Burlington from the project area to an appropriate new site for its continued use on campus. She has held the position of adjunct professor in the Department of Architecture at Norwich University in Northfield, Vermont, and lecturer in the Historic Preservation Graduate Program at the University of Vermont.

For ten years Liz prepared Section 106/ Historic Resource Review Reports for Vermont Agency of Transportation projects throughout Vermont. As the contracted historic preservation consultant for Housing Vermont, Inc. and the Vermont Housing and Conservation Board, she oversees projects that receive federal funding and require Section 106 review. Many of these undertakings are developed using the Rehabilitation Investment Tax Credit and involve buildings that are restored for affordable family housing, or for new commercial uses in historic downtowns. Liz has experience working on scattered site RITC projects, such as the recently completed, award winning undertaking in Bradford, Vermont where six historic buildings were rehabilitated at the south end of the Bradford Village Historic District.

LANDWORKS STUDIO
LANDSCAPE ARCHITECT

112 Shawmut Ave
Boston, MA 02118
www.landworks-studio.com

Landworks Studio is an award-winning design collaborative practicing regionally and abroad. Founded in 1996 by Michael Blier as an alternative practice, Landworks Studio consistently strives for design excellence and innovative landscape solutions. The collaborative's 14 members are primarily landscape architects, but also share interdisciplinary backgrounds in design, arts, and architecture. Our team has been assembled to practice landscape architecture at the highest levels of conceptual thinking and professional performance. We take great pride in the individual accomplishments of our team and the ways in which this informs our collaborative approach. As a design collaborative, Landworks Studio thrives on the close participation of the entire project team. Individuals in our diverse team have won international competitions, founded their own firms, worked with some of the most prestigious design firms in the nation, and have impressive degrees and honors from renowned design schools.

Frequent input from our clients, allied design professionals, and the community is a critical component of our design process as we seek to develop useful, meaningful, and lasting landscape spaces. Fundamental to our design process is the need to thoroughly test the formal, technical, and environmental appropriateness of each idea in order to ensure that the ultimate proposal is responsive to the nature of its context and the scale of inhabitation. We make extensive use of models, carefully constructed perspective photomontages, and computer models to evaluate every level of detail. We believe that these iterative investigations make for fast and accurate feedback, whether we are weighing different schematic ideas or construction details.

Landworks Studio has won numerous design awards for built and prospective landscapes, receiving the American Society of Landscape Architects' prestigious 2006 Award of Excellence for the Court Square Press Courtyard, a 2009 ASLA Honor Award for the Macallen Building, and a 2010 ASLA Honor Award for the Theater Group Retreat. The Macallen Building also won an Award of Excellence from Green Roofs for Healthy Cities, and has been certified LEED Gold.

FAITHFUL + GOULD
COST ESTIMATOR

55 Summer Street, 3rd Floor
Boston, MA , 02110
www.fgould.com

Faithful+Gould is an international construction cost and project management consultant, operating since 1947. Our brand was created by the joining of forces of two leading service providers – Hanscomb and Faithful & Gould – to create one of the world's leading total solutions providers for the built environment. Faithful+Gould maintains over 450 personnel in 18 offices in cities throughout the continental United States, Canada and Puerto Rico. Worldwide we employ over 2,000 staff and service our clients on nearly every continent.

The Faithful+Gould team works as a single integrated unit to oversee a construction project from conception through start-up and operation. We also provide individual project management support services during any phase of project development.

We have expert knowledge in ten major sectors including: Government; Education; Healthcare+Research; Energy; Pharmaceutical+Biotech; Aviation; Commercial+Retail; Hospitality, Arts+Leisure; Process Manufacturing and Food+Beverage.

We are staffed by a team of multi-disciplined professionals known for experience, leadership, objectivity and adaptability across both core business streams and key service offerings. The winning combination of extensive experience and a full range of services provided by independent, skilled professionals allows us to maintain a consistent exemplary level of performance on the delivery of projects within a client's parameters of time, budget and quality.

We have been providing support services to private and public sectors on a responsive basis for more than 60 years. The major portion of our business is valued long-term relationships with repeat clientele.

ATELIER TEN - (ALTERNATE CONSULTANT)
SUSTAINABILITY CONSULTANT

45 East 20th Street, 4th Floor
New York, NY 10003, USA
www.atelierten.com

Atelier Ten is a collaborative, interdisciplinary and innovative firm of environmental design consultants and lighting designers focused on delivering sustainability to the planned and built environment.

Our team's background in architecture, engineering, lighting design, environmental studies and urban design translates into a profound respect for architectural design and urbanism with an enthusiasm for working with emerging designers and established firms. Our core objective is to meet the needs of our clients by developing well-integrated buildings with simple systems that work with natural laws of physics to increase comfort, reduce energy consumption and contribute back to the greater environment.

We believe passionately in delivering a legacy of positive change. By recognizing and analyzing opportunities for improving energy efficiency, water conservation, material resources, and carbon emissions reductions, we provide integrated, full-service consulting on environmental design, building systems performance analysis, lighting and daylighting design, benchmarking, sustainable masterplanning, and inter-related services. Our broad and worldwide portfolio spans from the tallest LEED Gold Office building in the United States to the world's largest thermal labyrinth at Federation Square in Australia, to hundreds of award-winning projects and LEED certified buildings.

Enlightened but pragmatic solutions are a hallmark of our work. Our clients value our macro-to-micro approach to planning and design, always concentrated on making the most of environmental opportunities and enhancing the human experience in our projects. We provide big-picture guidance on goals, policies, and long-term planning, supported by technical analysis to test out design strategies for long-term use and cost. We draw from our extensive knowledge of green building design principles, strategies, technologies, and analytical tools to advocate for creative, practical, and appealing design solutions. Our methodologies combine qualitative and quantitative thinking: we deliver design solutions based on the cornerstones of sustainability, environmental integrity, economic viability and social wellbeing. An international firm, Atelier Ten provides a seamless, integrated service, marked by accessibility, reliability and efficiency at every level. Founded in 1990 in London by a team of progressive engineers, we have since expanded, with offices in New York, New Haven, San Francisco, Glasgow, and Abu Dhabi.

STATE OF VERMONT
DEPARTMENT OF BUILDINGS AND GENERAL SERVICES

LEAD ARCHITECT

NADAAA, Inc.
Katherine Faulkner, AIA, LEED AP

ASSOCIATE ARCHITECT

Kane Architecture
Patrick Kane, RA

STRUCTURAL ENGINEER

Simpson, Gumpertz, & Heger
Matthew Johnson, P.E.

CIVIL ENGINEER

Engineering Ventures
Peter Gibbs, P.E.

MEP ENGINEER

Pearson & Associates
Ed Pearson, P.E.

SUSTAINABILITY

Atelier Ten
Nico Kienzl, DDES, LEED AP

HISTORIC PRESERVATION

Liz Pritchett Associates
Liz Pritchett

LANDSCAPE ARCHITECT

Landworks Studio, Inc.
Michael Blier, ASLA

COST ESTIMATOR

Faithful + Gould
Paul Male

PROJECT EXPERIENCE

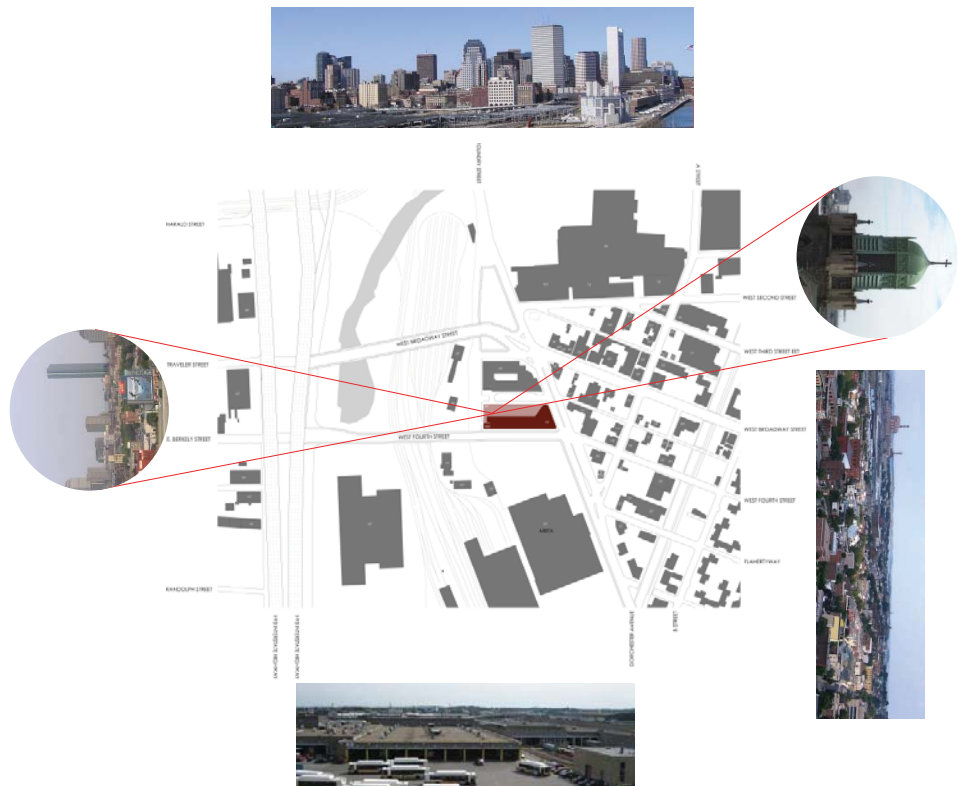
MACALLEN BUILDING, 2007

LOCATION: Boston, MA, USA
SIZE: 350,000 sq ft
BUDGET: \$70,000,000
ARCHITECT: Office dA/Burt Hill
CLIENT: Pappas Enterprises
CONTACT: Tim Pappas
t: (617) 946-9708
e: tpappas@papent.com

As a pivotal development in the urban revitalization of South Boston, the Macallen is designed on the principles of smart growth and green building, becoming a model for sustainable development in the city. The building is located on a former industrial site on the edge of South Boston which mediates between highway off-ramps, an industrial zone, and an old residential neighborhood. As such, the building negotiates different scales and urban configurations to address its surrounding context. The western end responds to the Boston skyline, rising to the maximum allowable height and serving as a new threshold into South Boston. The roof slopes down on the eastern end and mirrors the neighborhood's traditional building fabric of brickwork and storefronts. Responding to the industrial neighborhood on the north and south facades, a dynamic bronzed aluminum cladding reflects the structural system within. The scale and scope of the project involved the complex process of gaining public and community approval for a project. Working with construction managers and engineers early in the process, we capitalized on all possible sustainable building strategies to secure a LEED Gold Certification.

LEED Gold Certified
2010, AIA Institute Honor Award
2010, AIA New England Honor Award
2009, ASLA Honor Award
2009, BSLA Merit Award
2008, AIA/COTE Top Ten Green Project
2008, AIA Housing Award
2008, AIA/Mayor Menino Boston's Greenest Selection
2008, BSA/AIA NY Housing Design Award
2008, Residential Architect Grand Award
2008, ACEC Massachusetts Engineering Excellence Silver Award
2008, CMAA New England Chapter, Project of the Year

NADAAA

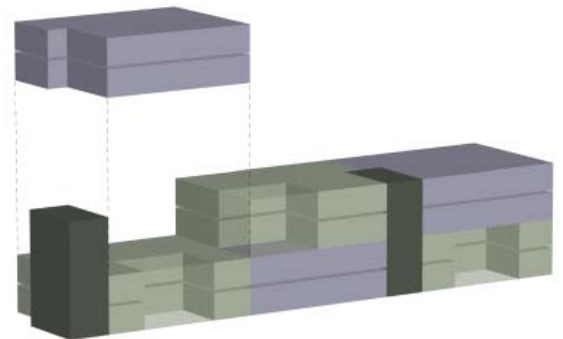
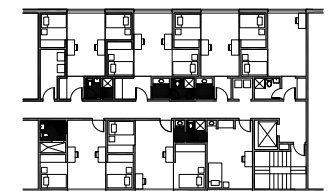
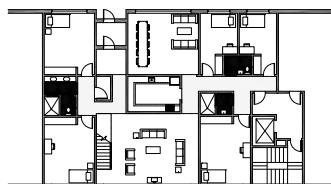
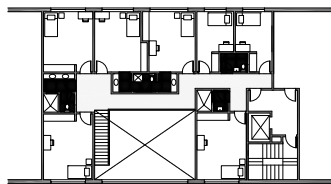
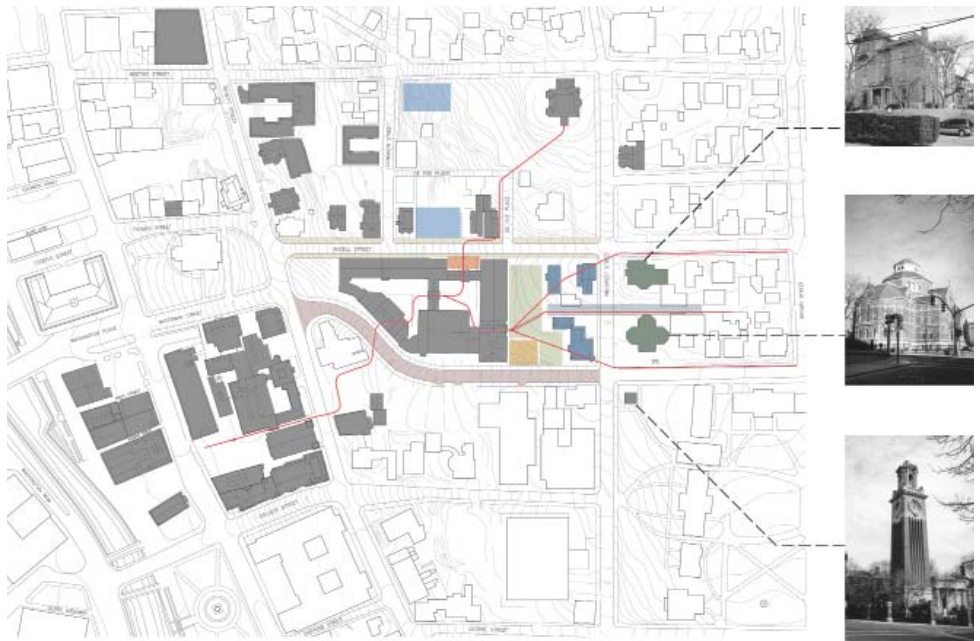


STUDENT HOUSING FEASIBILITY STUDY, 2003 Rhode Island School of Design

LOCATION: Providence, RI, USA
SIZE: 109,440 square feet, 342 beds
BUDGET: \$25,250,000
ARCHITECT: Office dA
CLIENT: Rhode Island School of Design
CONTACT: Frances Gast
t: (401) 588-0754
e: frances.gast@uconn.edu

In order to compete with other institutions while offering its student body better facilities, RISD commissioned a feasibility study to explore expanding its housing capacity by 300 beds, in a series of buildings including educational facilities such as class rooms, studio rooms, and a computer center. The site for the new student residences was on Nickerson Green, a recently acquired property north of the existing freshman dormitory facilities. The project was developed working closely with Residential Life, Physical Plant and the Dean's Council. Given the historic nature of the site, we also worked very closely with the neighborhood association to ensure a proper scale and placement for the buildings.

The challenge of the project was to build a dormitory that exemplified design quality and innovation, provided a unique residence experience for the students, and respected the historic setting, all within a clear and limited budget. Through a series of focus group meetings, we understood the students' preferences for two distinct alternative lifestyles: the communal "house" with 20 students sharing facilities, or a more individualistic "loft" experience where two students share a large open space. The "loft" type is predicated on the idea that each student would get a semi-private area separated by a curtain or a "barn" door, depending on the alcove's relationship to the exterior. The introduction of double heights in the "house" type allows us to break the repetitive pattern that is typical of dormitory facades. In the context of an analysis of trends across the country for new undergraduate student housing, the project explored a range of alternative configurations all with a mix of double and single occupancy.



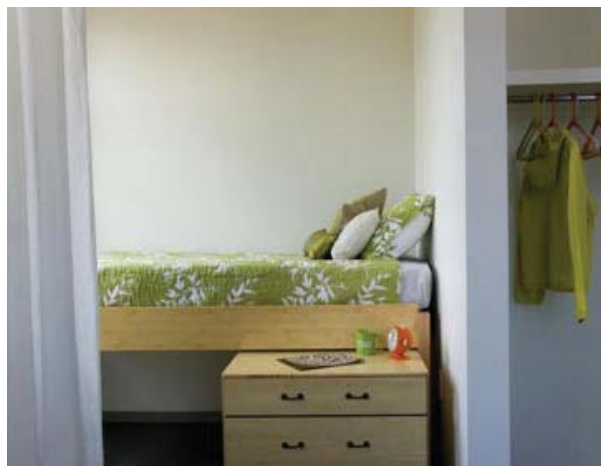
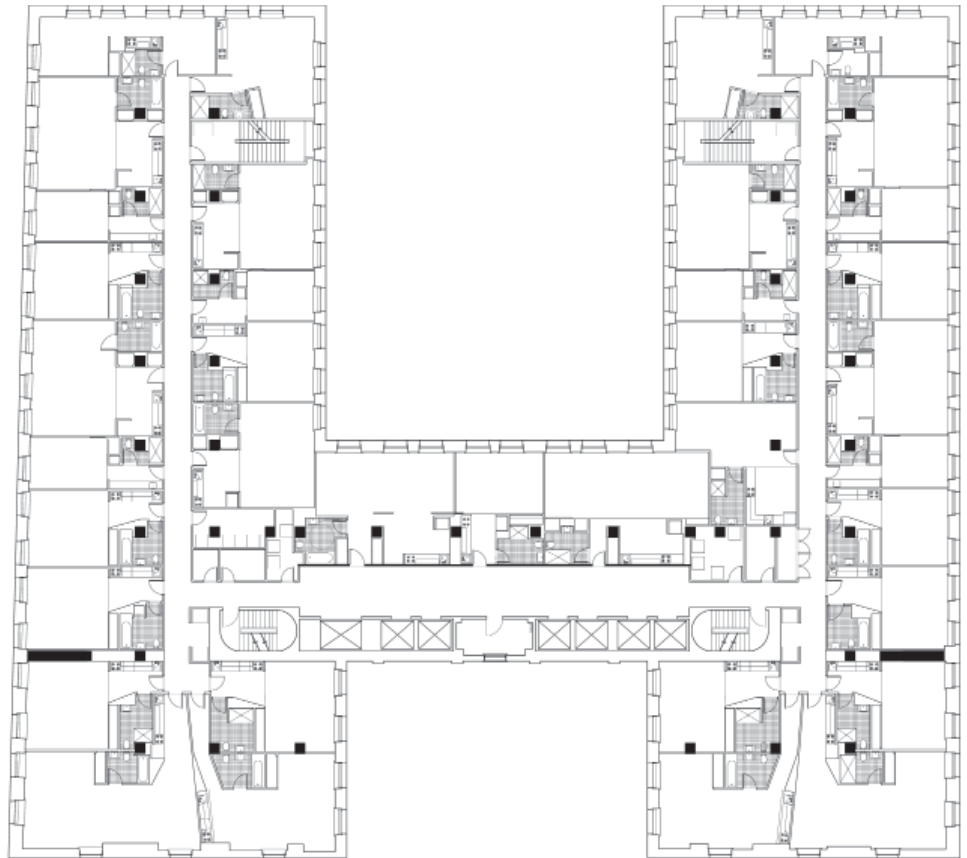
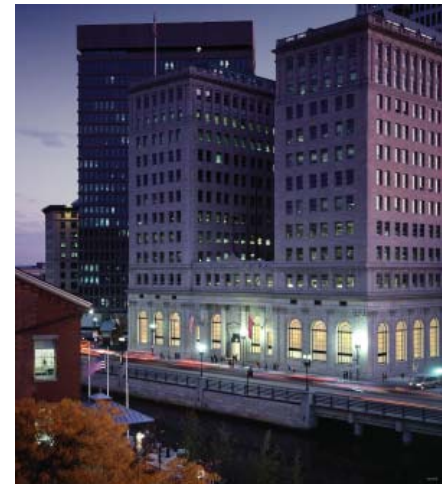
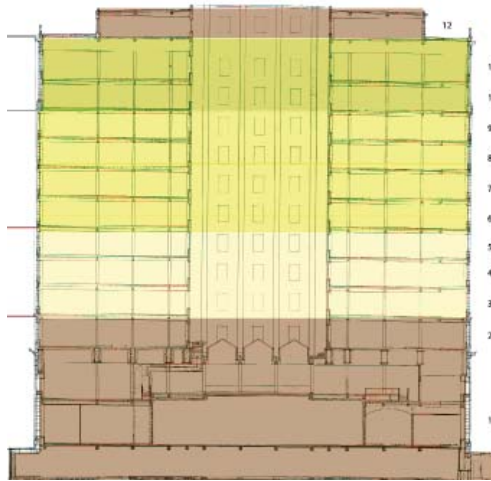
NADAAA

STUDENT HOUSING FEASIBILITY STUDY, 2003 Rhode Island School of Design

LOCATION: Providence, RI, USA
SIZE: 310,000 square feet, 492 beds
BUDGET: not disclosed
ARCHITECT: ADD Inc./Office dA
CLIENT: Rhode Island School of Design
CONTACT: Frances Gast
t: (401) 588-0754
e: frances.gast@uconn.edu

As part of an ambitious program of campus expansion, RISD decided to pursue its residential offerings in an apartment style student housing at 15 Westminster Street in downtown Providence. The building, listed on the National Register of Historic Places, is located across the river from its main campus and was a former bank from the 1920's. The scope of the project was to transform the top nine floors of the structure into housing and student life spaces for nearly 500 students. The intent of the project was to create a comfortable residential setting that encouraged learning, community life and gave students individual time for the production of art which is at the core of RISD's educational mission.

In this renovation, the historic structure became the vehicle for an entirely new housing typology. The project explored a range of alternative configurations with a mix of double and single occupancy at a ratio of 30% singles and 70% doubles. Three different housing configurations emerged, which were adapted from Office dA's previous housing feasibility study for RISD. The more traditional apartment style, provided traditional bedrooms arranged around central communal spaces, with bathrooms configured for ease of sharing. Loft apartments provided large open spaces that encouraged communal living. The configuration of the "Alcove" style enabled greater privacy providing every resident with semi-private area separated by a curtain or sliding door. The layouts enable the efficient stacking of plumbing and mechanical systems to produce a cost effective and innovative design.



NADAAA

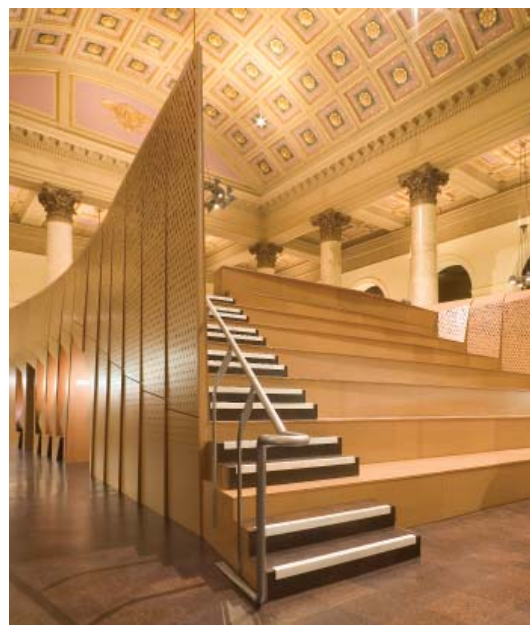
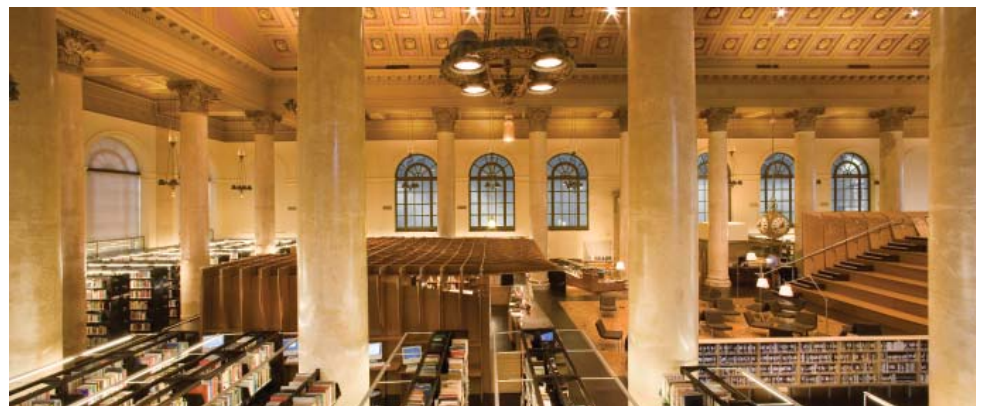
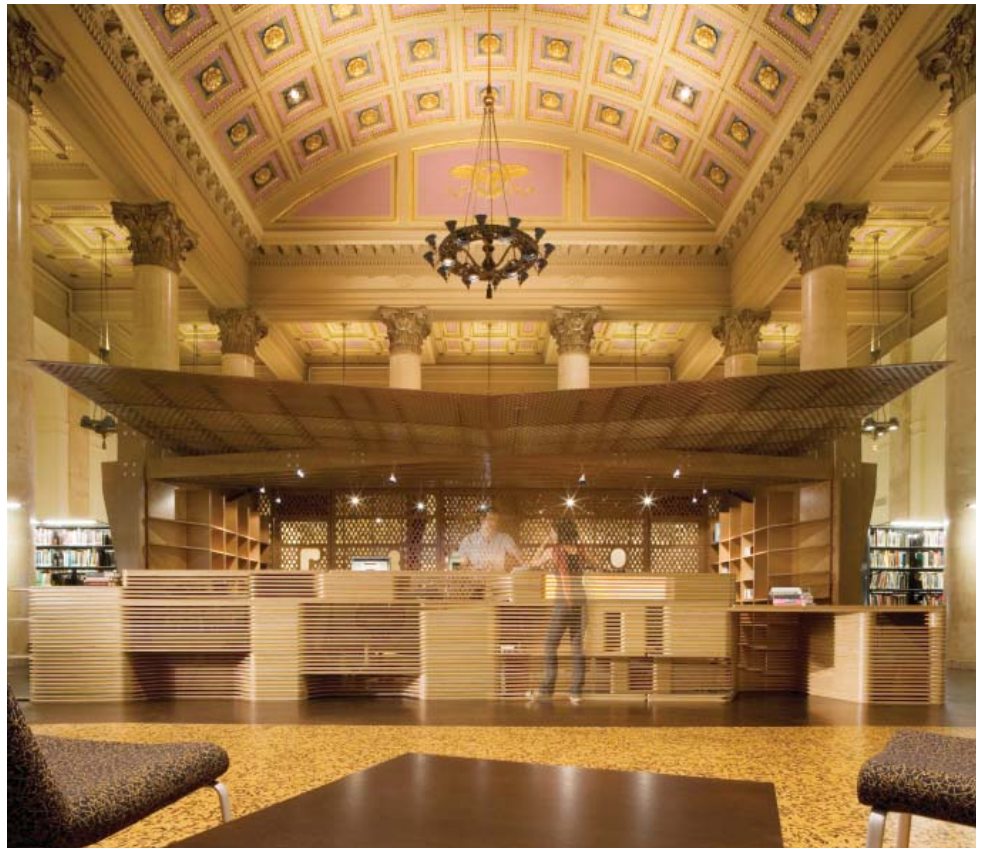
FLEET LIBRARY, 2006 Rhode Island School of Design

LOCATION: Providence, RI, USA,
SIZE: 55,000 sf
BUDGET: \$11,000,000
ARCHITECT: Office dA
CLIENT: Rhode Island School of Design
CONTACT: Frances Gast
t: (401) 588-0754
e: frances.gast@uconn.edu

The RISD Library at is an example of the successful synergy of preservation, engineering, and intervention. The project transforms an old bank listed on the National Register of Historic Places into the school's main library on the first three floors. The library is conceived as a collective "living room" for the 500 students housed above. It houses an extensive collection of art and design volumes, magazines, and multimedia resources, as well as study areas, classrooms, conference rooms, and administrative offices. The programmatic needs of the library superseded what the space could accommodate, such that two new pavilions were positioned within the barrel vaulted hall, enabling the addition of new study spaces, a reading room, and a circulation island. The pavilions not only house these programs, but make use of every surface and pocket of space to maximize their functionality. This project not only preserves the space while adhering to rigid new mechanical, safety, and accessibility requirements, but improve its functionality and provides RISD a dynamic addition to the campus. By working closely with the contractor, budgetary constraints were met using this collaborative model of design to pricing exercises. The schedule was determined along strict academic schedules, respecting the school semesters and the necessity for school-wide operations.

2008, BSA/AIA New York Educational Facility Design, Honor Award
2008, BSA/IIDA/ASID Interior Architecture/Interior Design Award
2008, ALA/IIDA Library Interior Design Awards, Outstanding Historic Renovation/ Adaptive Reuse
2007, I.D. Magazine Annual Design Review Award: Environments
2007, AIA/ALA Library Building Award
2006, Providence Preservation Society, Adaptive Reuse/Material Conservation/ New Design/Institutional Award

NADAAA

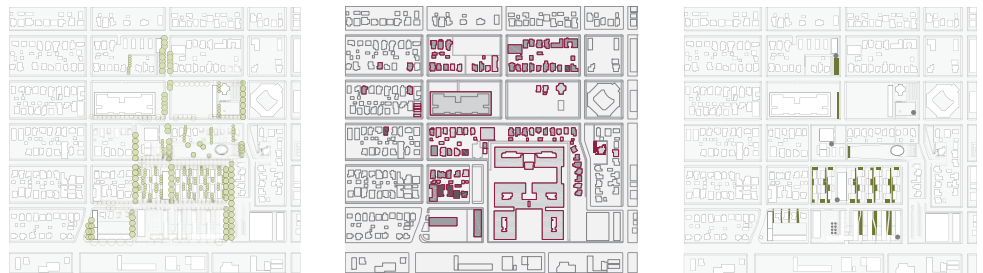


MASTER SITE PLAN MENIL COLLECTION, 2009

LOCATION: Houston, TX
SIZE: 28 acres
ARCHITECT: Office dA
CLIENT: The Menil Collection
CONTACT: Josef Helfenstein
t: 713.525.9430
e: jhelfenstein@menil.org

While the heart of the Menil campus is well defined, the general distribution of its ancillary buildings are dispersed and embedded into the fabric of the city. Our proposal strategically extends the fabric of the city into the site, while carving out precious outdoor green spaces. If the existing building fabric of the area produces a North-South grain, the green spaces produce a staggered East-West bias; we take advantage of this weave to create a new distribution of spaces, programs, and connections that bring together a new campus that is wound into the logic of the city. A new skewered axis is formulated, linking all the 'green rooms' into a coherent logic. This becomes layered with all the infrastructural elements of the master plan, especially the pedestrian circulation. Moreover, it is reinforced by the landscape, sustainable techniques, and subterranean amenities—keeping in mind that a master plan is a foundation for varied possibilities in the future. Thus, striations of trees, storm water retention gardens, grey water basins, permeable paths, and a co-generation power tunnel links all of the various buildings to the north-south organizational layers.

Our multi-faceted approach to the master plan addresses the scale of the city, the connection to the community, and its responsibility to the neighbors. Our plan has an infrastructural role, linking streets, sidewalks, sewer systems, energy ducts and landscape rooms as a platform for flexibility, expansion, and investment—rooted in technical mandates, with phasing, life cycle costs, energy investments and savings part of the concrete planning efforts. It offers a unique connection between urbanism, the landscape, and architecture.



NADAAA

HINMAN RESEARCH BUILDING Georgia Institute of Technology, 2011

LOCATION: Atlanta, GA, USA

SIZE: 36,000 sf

BUDGET: \$8,500,000

ARCHITECT: Lord, Aeck and Sargent in
collaboration with Office dA

CLIENT: Georgia Institute of Technology

CONTACT: Alan Balfour, Dean

(404) 894-3880

alan.balfour@coa.gatech.edu

In the renovation and interior fit-out of the Hinman Building to house the School of Architecture, we negotiated at least 3 roles: the designer as preservationist, as engineer/code negotiator, and as interventionist. At the building's core is an open, 47 ft. tall industrial "high-bay" shed, which is illuminated by rows of large clerestory windows above and flanked to the north and south by office and classroom wings. Vested interests required that the building be rehabilitated in keeping with the ideals of Heffernan to serve as a pedagogical example. The rehabilitation also brought up the building to current codes and requirements as they pertained to structure, life safety, accessibility, acoustics and lighting, without which the building would be lead into obsolescence. For our part, we leveraged these updated requirements in tandem with the new program and sustainable features to inform sensitive interventions that tap into the building's potential

A general aesthetic emerges from these elements—a filigree of suspended cables and lineaments produce a middle ground for the lofty expanse of the high bay room. The ground is horizontal and flexible, while the sky vertically programmed and saturated. Efficient and strong, the combination yields an environment well-tailored to serve its future occupants.

LEED Gold Pending

2011, Honor Award, AIA Georgia

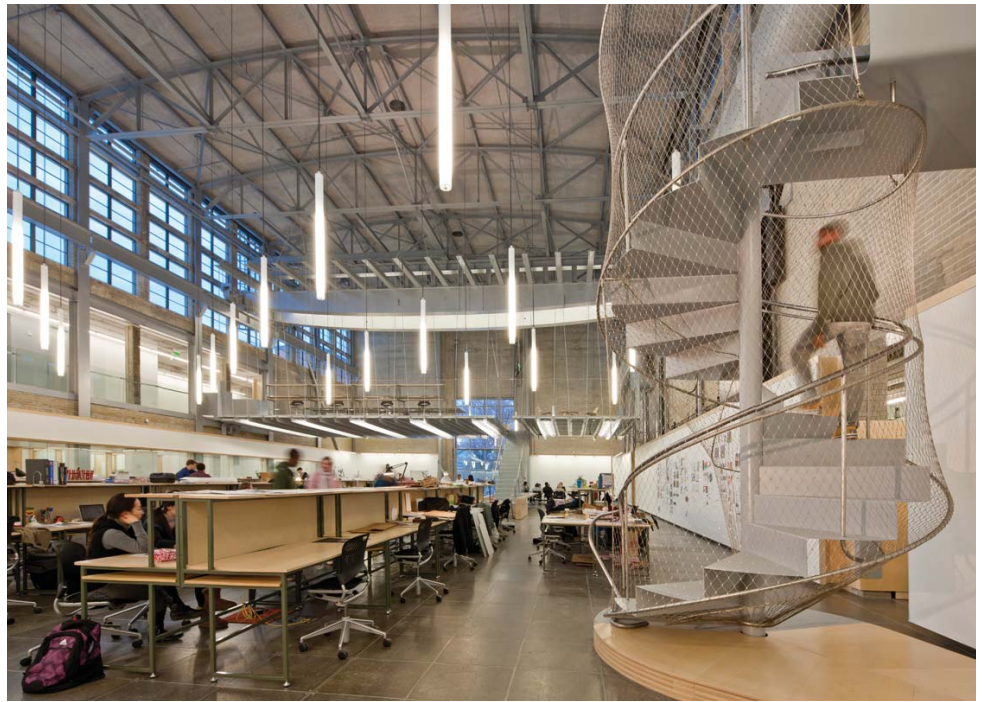
2011, Sustainability Award, Board of Regents, Georgia

2011, Platinum Award, BD+C Reconstruction

2011, Honor Award, CMAA

2011, 1st place, AGC Build Georgia

2011, 58th P/A Awards, Citation



NADAAA

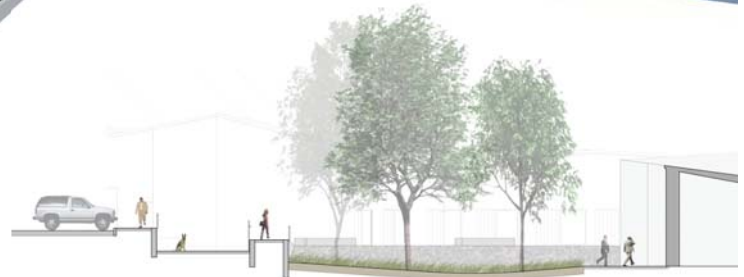
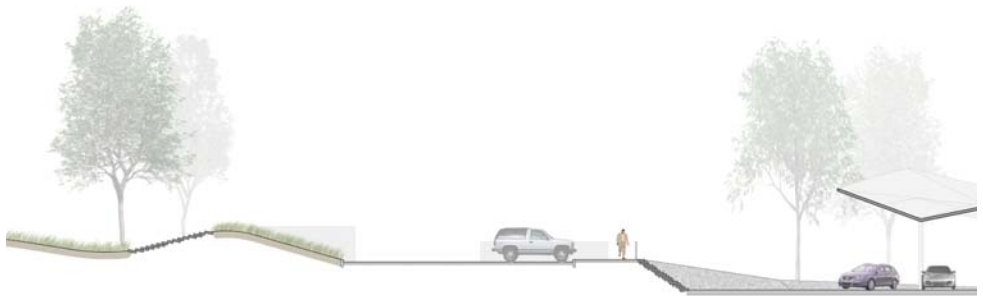
GSA LAND OF PORT ENTRY

LOCATION: Madawaska, ME, USA
ARCHITECT: Office dA/ Performa
CLIENT: U.S. General Services Administration
Status: Design Development Completed
CONTACT: Fred Amey, Project Manager,
T: (617) 780-2319

This classified border crossing project requires a high degree of coordination between consultants and federal agencies. Security and staff needs, as well as the inspection processes, are very particular to this Land Port of Entry and its site along the St. John's River.

There are many demands on the site: provide a welcoming, but secure front for visitors; establish a positive relationship between the facility and its neighbors – Madawaska residents on Mill Street, Fraser Paper's factory, and a string of stores on Main Street; and structure the movement of commercial and privately-owned vehicles through the inspection areas.

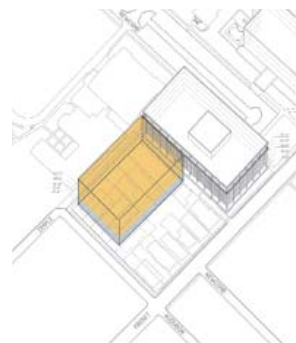
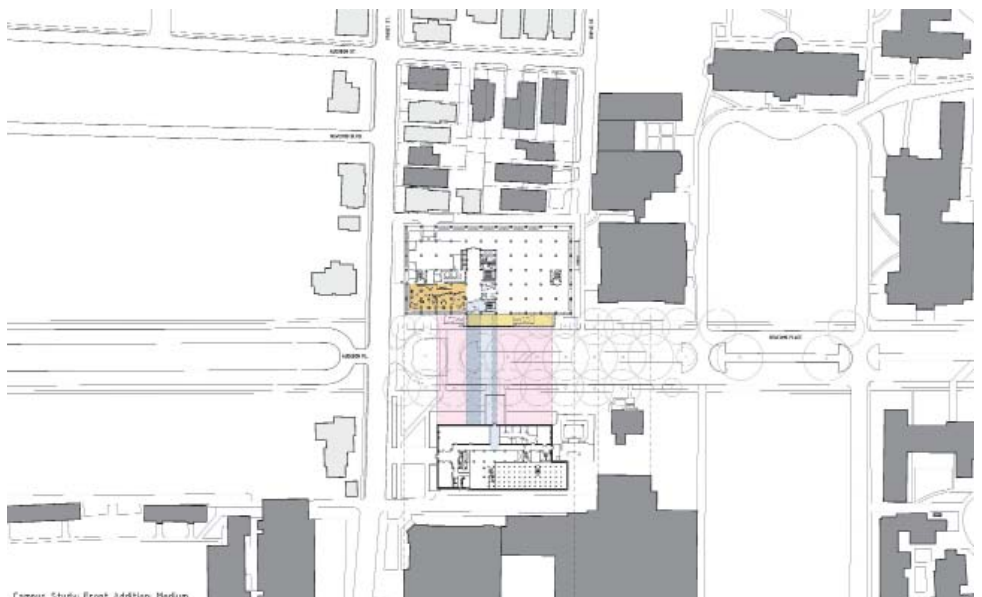
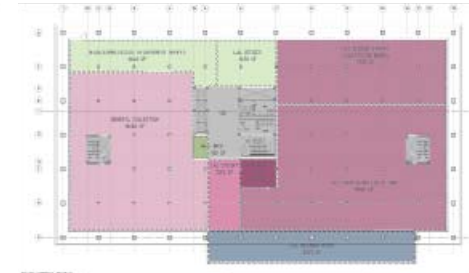
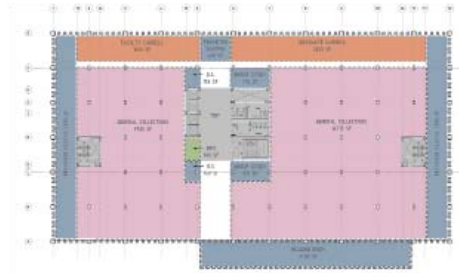
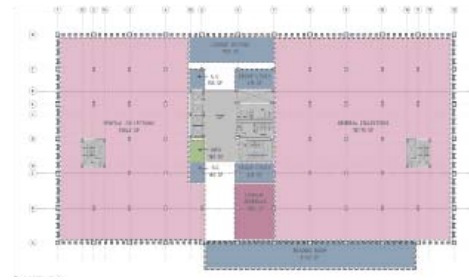
Almost as an extension of the architecture of the Main Port Facility, the landscape folds into peaks and valleys, providing visitors with a unique landscape experience that will speak to the natural and built topography of this part of Northern Maine. Native vegetation will emphasize this grading strategy, employing same bank stabilization methods used at the edges of the site to create a seamless visual experience for the visitor as he or she enters the United States.



LIBRARY RENEWAL MASTER PLAN, 2009 Tulane University

LOCATION: New Orleans, LA, USA
 SIZE: Existing: 308,080 sq ft between
 2 buildings; Additional: 18,260- 105,750
 sq ft
 ARCHITECT: Office dA
 CLIENT: Tulane University
 CONTACT: Collette Creppell
 t: 504-862-8190
 e: Creppell@tulane.edu

As part of the reorganization after the damage of Hurricane Katrina, this project addresses how Tulane University can immediately deal with the current overcrowding of its main library (Howard Tilton Memorial Library - 206,980 sf) by moving part of the collection off site and reconfiguring the interior of the library. The plan also involves studying a variety of possible additions- from a 18,260 sf reading room addition, an 85,800 sf rooftop addition, a 35,820 sf rear addition, and a larger rear addition with parking for 180 cars plus 105,750 sf. These studies encompass both the current collection of approx. 1,916,000 volumes as well as projected growth which will reach 2,674,000 volumes in 20 years. A second part of the task is to reconfigure the interior of the adjacent Joseph Merrick Jones Hall (101,100 sf), which houses the University's special collections, and create a connection between the two library buildings. i.e. a plaza, area of patterned paving. The strategies proposed for the Howard-Tilton Library and Joseph Merrick Jones Hall Master Plan were the result of a careful analysis of the existing conditions of both structures, in parallel with understanding the history of the collection, and the role that the library currently plays on the life of the campus.



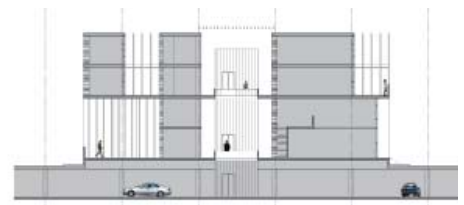
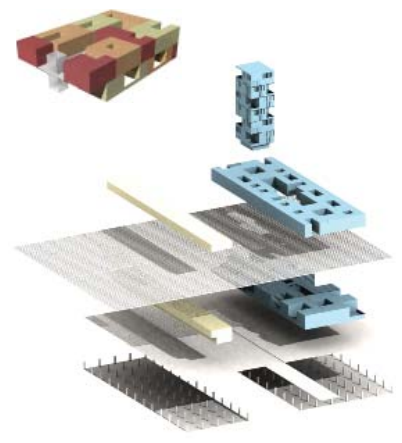
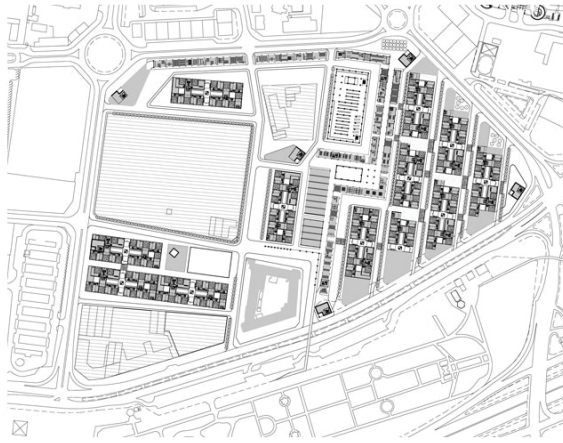
MASTER PLAN KUWAIT AL SHARQ DISTRICT, 2005

LOCATION: Kuwait City, Kuwait
SIZE: 250,000 square meters
ARCHITECT: Office dA
CLIENT: Kuwait Interests Holding
Company
CONTACT: Mohamed D. Al-Saleh,
chairman

The Sharq District is developed as a multi-purpose neighborhood - containing civic, retail, commercial and residential programs. As such, it is conceived as a self sufficient district as well as a point of destination for others in the Kuwait Central City area.

The housing occupies two paradigms: mat building and tower. The matte building benefits from courtyard conditions which offer exceptional value to each household: open space, light, air, views, and privacy - all features conventionally absent in this class of real estate. Towers define the silhouette of the Sharq district, anchoring the site from different approaching perspectives.

A retail spine connects the Al Shuhada Park to the city on the east-west axis. This axis will house a variety of amenities that will furnish the district with its daily needs (supermarket, hardware store, etc), but also make available a range of other retail environments.

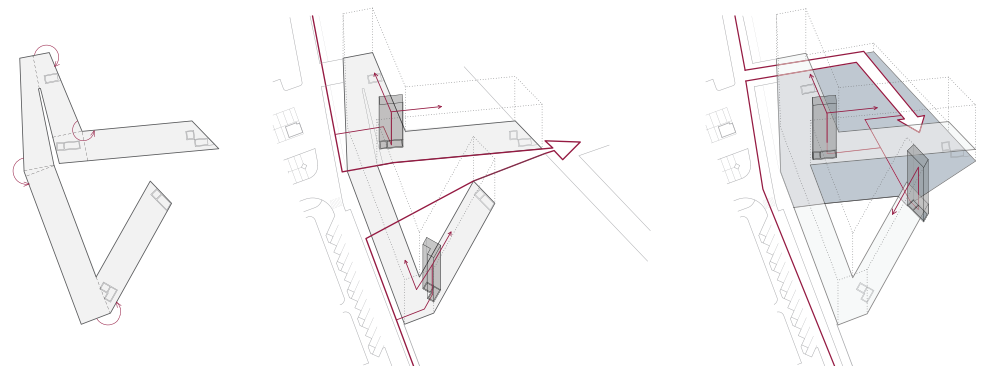
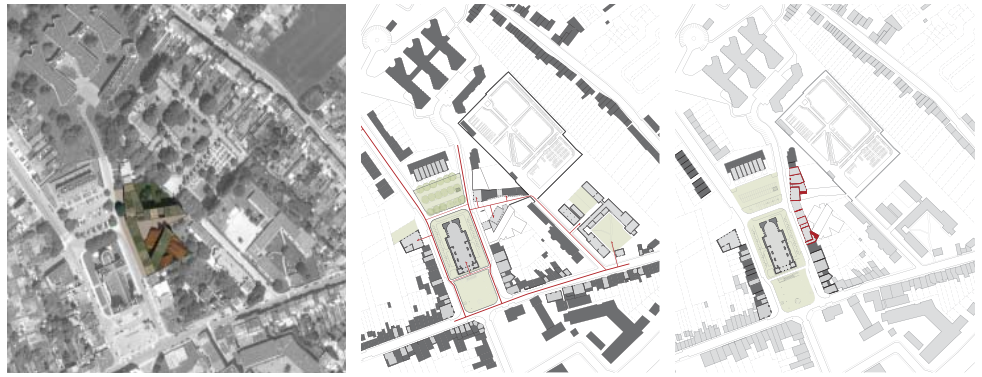


NADAAA

PIETER EN PAUWEL
WOONZORGCENTRUM, 2008

LOCATION: Neder-over-Heembeek, Belgium
SIZE: 8,000 square meters
ARCHITECT: Office dA
CLIENT: Vlaams Bouwmeester

The Pieter en Pauwel site is designed around three ideas. First, we propose the idea that the building defines the edge of the street, along Pieter Benoitplein, acting as an urban backdrop to the plein while extending the retail spaces at its base to give human activity to the street alongside the church. Second, we propose to the idea of extending the east-west street behind the apse of the St. Pieter and Pauwel church into the site, extending the perspective all the way into the cemetery. The street is carved out of the proposed housing block, and thus, the threshold into the street is defined by a pair of row houses that have been raised to allow for public access. While this offers pedestrian access to the school and cemetery, it also organizes all the public aspects of the program on the north and south side of the street. Third, while the housing block is generally defined by four separate legs, in actuality the entire housing program is conceived as one building, in order to maximize efficiency, standardizing structural systems, combining cores, and gaining a better net to gross square footage. It is organized as a bar building that is folded five times, establishing strategic relationships with each neighboring context: the west onto Pieter Benoitplein, the south completing the south yard, and to the north overlooking the cemetery framing the north yard. The massing of this block is in harmony with that of its neighboring buildings, and steps up the topography incrementally, following the sidewalk, the street, and the grain of the city.



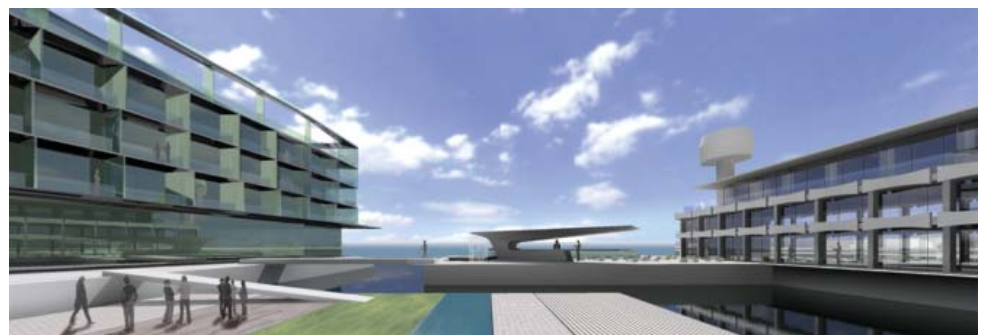
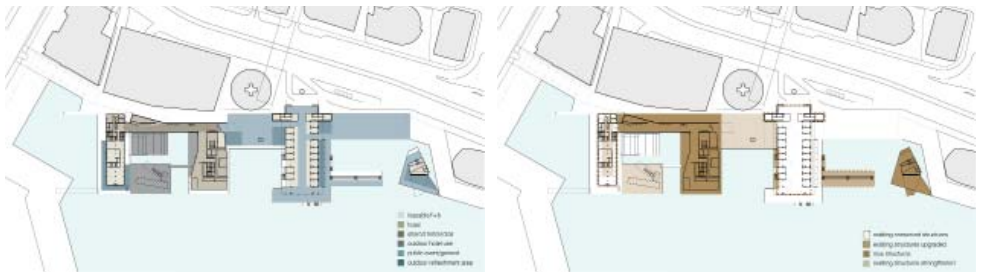
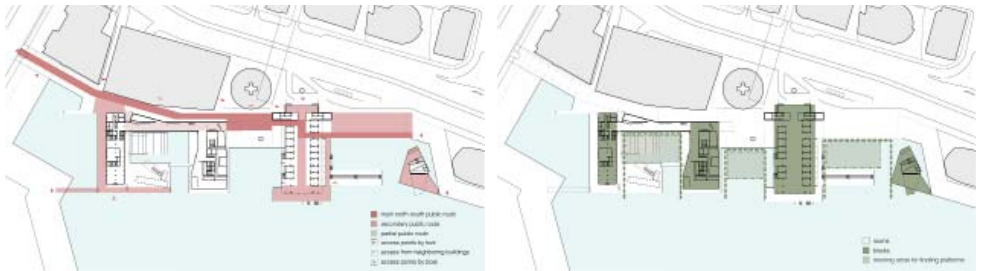
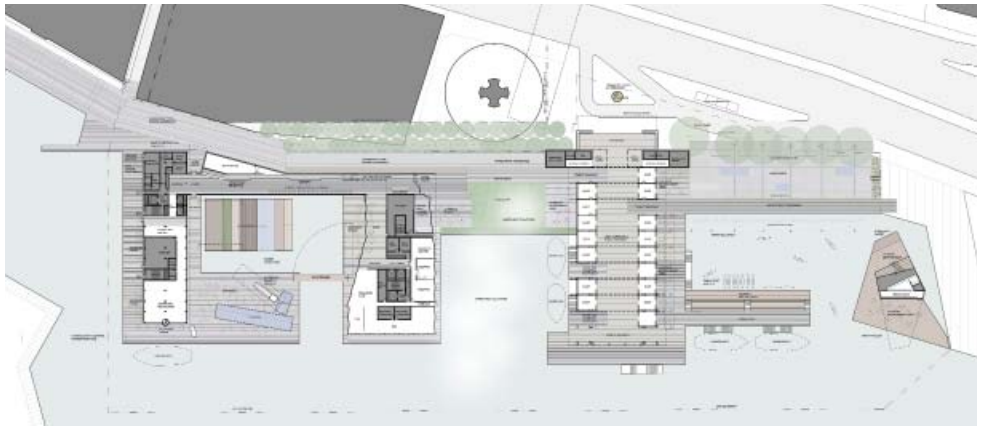
NADAAA

COLLYER QUAY, 2006

LOCATION: Singapore
SIZE: 10,000 square meter
ARCHITECT: Office dA
CLIENT: Carlton Hotel Group c/o Aedas
Pte Ltd
CONTACT: Tony Ang
t: 011-65-6734-4733
e: tony.ang@aedas.com

The proposed renovation of the Clifford Pier and the Customs House and its ancillary waterfront development at Collyer Quay play an important role in connecting the Central Business District of Singapore to its waterfront. It offers a model for the master-plan that will oversee the larger initiative of creating programmatic, recreational, and cultural connections between the region's urban centres and their adjoining coastlines. In particular, Collyer Quay plays a seminal role in the Bayfront promenade, since it carries with it a certain historical weight, as both the Clifford Pier and the Custom's Harbour Building already contain a resonant relationship with the city's past and the memory of its inhabitants. In addition, the adjoining spaces to the north and south of both buildings serve as strong indicators of public potential, creating spaces for retail, commerce, recreation, and leisure alike. We have used this proximity to water to create a thematic thread linking all the spaces together. Each outdoor room is based on some specific connection to the water --functional and symbolic.

The site strategy is based on a bi-axial organization, with all buildings thrusting themselves on the east-west axis into the water, creating virtual piers that frame pools of water in between. Each of these water courts are organized in accordance with their respective programs. On the north-south axis the entire waterfront development is connected by way of a pedestrian street, linking the various private, commercial/retail and public spaces in a coordinated way on the longitudinal axis. The programmatic organization of the site on the north-south axis is as follows: Boutique Hotel, South Deck, Clifford Pier, North Deck, the Amphi-Pavilion.



NADAAA

BRIDGE MEANS RESTRICTION in progress

LOCATION: Ithaca, NY, USA

ARCHITECT: NADAAA

CLIENT: Cornell University/City of Ithaca

CONTACT: Andrew Magre

t: (607) 255-9778

e: alm47@cornell.edu

The City of Ithaca and Cornell University are tied together by a shared experience of the gorges that define the campus and the City's edge. The bridges, similar to the gorges, have also become instrumental as defining characteristics of the connections between Ithaca, the University and the broader community. Understanding the bridges as part of this broader identity lies at the foundation of this design study. The seven bridges included in this Pre-Schematic design study share many common conditions, the greatest of which is their ability to negotiate an extraordinary landscape and join people, places and events. However, each bridge, with its characteristically unique structure, inhabitation and purpose, responds to specific conditions imposed by the landscape and the built environments at either side of the gorge. As each unique bridge works within the broader family, the means restriction design proposals operate similarly. A limited number of materials and methods are adopted to address the specifics of each bridge while bringing cohesiveness to the larger group.

The Pre-Schematic Design phase affords the opportunity for a broad perspective of design options for each bridge. Building on the work of the Program and Analysis phase, the design options presented are intended to work with the inherent complexities and logics of each bridge and build design proposals that are cohesive and yet sometimes divergent in direction. This approach indicates how each bridge can be understood in multiple frameworks both individually and as part of the larger family of bridges. The Pre-Schematic phase is intended as the precursor to Schematic Design where an individual scheme for each bridge is researched and developed in greater detail.



NADAAA

Railroad Row (Phase 2 & 3)

This 32,000 square foot steel building contains retail space, offices and apartments. It is located on an existing brown field as part of an urban infill redevelopment in White River Junction. This low-cost building utilizes low embodied energy construction, day lighting, passive ventilation and healthy materials. The new occupants have had a positive impact on the life and economy of the downtown.



Client: William Bittinger. Completed 2007.



Client: William Bittinger. Completed 2010.

Claire's Restaurant

Located in Hardwick this project included the renovation and fit up of a community supported restaurant dedicated to local and regional foods. The project involved input from multiple stakeholders.



Client: Claire's Restaurant



Newport Vermont Form Based Code

Working with in the city of Newport, Harry Hunt (an associate of Kane Architecture) conducted an analysis of site conditions and prepared a series of massing studies for the implementation of a new form based code which has recently been adopted. The first round of new projects are currently being considered for the waterfront area along Lake Memphremagog. (Client: Paul Dreher, Newport City Planning and Zoning)



Spates Block Infill - View from West (April 15 1:30 pm)

CLIENT Newport City Planning & Zoning	PROJECT Core 1 Form Code	ISSUE 04.07.10	harry hunt ARCHITECTS	04
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Internal Revenue Service,
Andover, MA



Richardson Olmsted Complex,
Buffalo, NY



Latchis Building, Brattleboro, VT



University of Massachusetts,
Tobin Hall, Amherst, MA



University of Michigan, Heritage
Dorms, Ann Arbor, MI



Middlebury College, Breadloaf
Campus, Ripton, VT

ACADEMIC AND OFFICE BUILDINGS

MASTER PLANNING AND REHABILITATION PROJECTS

Middlebury College, Breadloaf Mountain Campus, Ripton, VT

Complete condition assessment of 40 historic wood-framed buildings, including interiors, exteriors, and building systems. Work plans for rehabilitation of the buildings keeps with their historic character and our condition assessment report and cost estimates will be used for capital planning for the short-term and long-term rehabilitation needs of the campus.

Rockland Community College, Suffern, NY

Numerous capital needs and maintenance inspections of 14 buildings on this community college campus.

University of Massachusetts, Condition Survey for Five University Campuses

Condition survey of structural and building envelope issues in a comprehensive study of differential capital improvement budgets for five state university campuses. Work included a review of repair and maintenance plans and repair prioritization.

University of Michigan, Ann Arbor, MI

Investigation of various building envelope and structural problems, development of design documents and estimates, and construction administration including competitive bidding of the repairs and construction monitoring for approximately 40 buildings since 1996.

The Richardson Olmsted Complex, Buffalo, NY

Structural condition assessment of multiple vacant buildings and development of building envelope repairs to 1870s brick and masonry buildings. Also developed semi-permanent shoring schemes for portions of the abandoned structures in danger of collapse

General Services Administration, Moorhead Federal Building, Pittsburgh, PA

Peer review of progressive collapse analysis and design guidelines for new federal office buildings and major modernization projects

Internal Revenue Service, Northeast Regional Headquarters, Andover, MA

Structural design of 440,000 sq ft headquarters and service center for the Government Services Administration Design Excellence Program

Liberty Mutual Insurance Company, Office Buildings, Various Locations

Structural design of 140,000 sq ft office building, Weston, MA; 104,000 sq ft office building, Mishawaka, IN; 203,000 sq ft data center with blast-resistant-wing, Portsmouth, NH; and 145,000 sq ft office building, Gainesville, GA

AT&T Campus Expansion, Middletown, NJ

Building envelope design, technical peer review of five buildings

Blue Cross Blue Shield, Cameron Hill Campus, Chattanooga, TN

Building envelope design consulting for 1.2 million sq ft of office space in five buildings and parking for 5,000 cars

Russia Wharf Redevelopment, Boston, MA

Building envelope design and façade preservation consulting

General Services Administration, Region 1 IDIQ for Building Envelope Condition Assessment and Repair Design

Building envelope design services for existing GSA buildings in Region 1 (New England), including investigation of five GSA buildings and design rehabilitation of one building. Work involves condition assessment of building envelope components to improve energy efficiency and reduce leakage.

Latchis Building, Brattleboro, VT

Condition assessment of cast stone facade of 1938 Art Deco building. Work included laboratory analysis of concrete and removal of falling hazards and temporary weather protection. Developed repairs details and specifications for replacement of heavily damaged cast stone materials.

Middlebury College, Fine Arts Center Museum, Middlebury, VT

Building envelope and roofing investigation and repair concept development



New Museum of Contemporary Art,
New York, NY



Baha'i Temple, Santiago,
Chile



Museum of Fine Arts
Expansion, Boston, MA



Bowdoin College, Walker Art
Museum, Brunswick, ME



Washington University, Sam
Fox Arts Center, St. Louis, MO



Sidwell Friends School,
Washington, DC

BUILDING SCIENCE

Baha'i Temple, Santiago, Chile

Building envelope design, building science, and materials testing for new temple; designed by Hariri Pontarini Architects

Bowdoin College, Walker Art Museum, Brunswick, ME

Building envelope design and building science for renovations and expansion

Harvard University, Werner Otto Hall, Cambridge, MA

Building envelope investigation and building science for addition to Fogg Art Museum

Hotchkiss School Natatorium, Lakeville, CT

Building envelope investigation, building science, and repair design involving efflorescence, wetting of interior surfaces, air leakage due to inadequate air barrier, and HVAC system

Middlebury College, Fine Arts Center Museum, Middlebury, VT

Building envelope investigation, repair design, and building science involving air/vapor barrier and mechanical systems

Museum of Fine Arts Expansion, Boston, MA

Building envelope design and building science; designed by Foster and Partners with CBT

New Museum of Contemporary Art, New York, NY

Structural design, building envelope design, and building science; designed by Kazuyo Sejima + Ryue Nishizawa / SANAA with Gensler

Princeton University, Art Museum, Art Storage Facility, Princeton, NJ

Building envelope design and building science; whole-building energy modeling to determine potential for energy savings and operating costs

Residential Complex, Washington, DC

Building envelope investigation and building science; whole-building energy simulations to determine cause of high energy use and frequent overheating

Sidwell Friends School, Washington, DC

Building enclosure commissioning; building science consultation during construction of LEED-Platinum rated school addition

Smithsonian Institution, National Museum of the American Indian, Washington, DC

Building envelope design and building science, owner consultant

Snowdome at Meadowlands-Xanadu Complex, East Rutherford, NJ

Whole-building energy simulation to model performance of indoor ski park

St. Paul's School, Schoolhouse Building, Concord, NH

Whole-building energy modeling to determine building efficiency

Thornton Natatorium, Thornton, CO

Building science for natatorium with condensation and efflorescence problems

University of Michigan, Don Canham Natatorium, Ann Arbor, MI

Building envelope engineering and building science for natatorium

Washington University, Sam Fox Arts Center, St. Louis, MO

Building envelope design and building science; designed by Fumihiko Maki with Shah Kawasaki Associates

Yale University, Beinecke Rare Book Library, New Haven, CT

Building envelope rehabilitation and building science; designed by Gordon Bunshaft

Yale University, Sterling Memorial Library, New Haven, CT

Building envelope rehabilitation and building science; designed by James Gamble Rogers



**Bowdoin College Chapel
Restoration, Brunswick, ME**



**Natural History Museum,
Los Angeles, CA**



**The Fairmont Hotel,
San Francisco, CA**



**Milwaukee City Hall,
Milwaukee, WI**



**Leigh Street Armory,
Richmond, VA**



210 South Street, Boston, MA

PRESERVATION PROJECTS (pre- 1930s buildings)

1000 Van Ness Avenue, San Francisco, CA

Building envelope engineering and preservation of the historically significant Don Lee Building (ca. 1921)

210 South Street, Boston, MA

Structural and envelope restoration of neo-classical, 11-story building (circa 1919) designed by Monks & Johnson

222 Sutter Street, San Francisco, CA

Rope access survey and wall systems restoration of terra-cotta clad 10-story building, designed by Paul Revere Williams (ca. 1920s)

Allen House and Porter House, Boston, MA

Structural restoration of 1859 Italianate and French Second-Empire Allen House and the Federal Period Porter House (ca. 1806)

Boston Athenaeum, Boston, MA

Structural and building envelope investigation and repairs to 1849 library building designed by Edward Cabot with additions by Henry Bigelow in 1914

Boston Public Library, Boston, MA

Roofing, stone wall, and plaza restoration of McKim Mead & White-designed building

Bowdoin College, Chapel Restoration, Brunswick, ME

Preservation and restoration of 120-ft bell towers of 1855 chapel designed by Richard Upjohn

Catholic Cathedral of St. Louis, St. Louis, MO

Structural and building envelope repairs of Romanesque and Byzantine style cathedral (circa 1909)

Clayton City Hall and Civic Center, Clayton, CA

Award-winning seismic retrofit, structural rehabilitation, and historic restoration of 1885 structure listed on the National Register of Historic Places

Columbia State Park, Columbia, CA

Historic structures report including repair recommendations for 22 brick buildings built ca. 1849 during the Gold Rush

Columbia University, Butler Library, New York, NY

Investigation and design of roof replacement including redesign of copper flashings, parapets, stone copings, and cornice gutters for Columbia's largest of 25 libraries, a historic building designed by James Gamble Rogers

DuSable Museum of African-American History, Chicago, IL

Roof and wall systems restoration of building designed by Daniel Burnham

Eldridge Street Synagogue, New York, NY

Structural and building envelope restoration of religious building (ca. 1887)

Emerson Majestic Theater, Boston, MA

Structural and building envelope investigation of terra-cotta cladding elements and restoration and maintenance recommendations for historic theater building

Ennis House, Los Angeles, CA

Building envelope condition assessment, materials laboratory analysis, and conservation treatment strategies for 1924/25 Frank Lloyd Wright-designed house listed on the National Register of Historic Places

Exeter Street, Theater, Boston, MA

Post-fire structural investigation and award-winning restoration of building designed by Hartwell and Richardson in the 1880s as the First Spiritualist Temple

First Christian Church of Rialto, Rialto, CA

Comprehensive structural and building envelope evaluation of a wood-framed National Register listed church designed by architect H.M. Patterson in the late Gothic Revival and Craftsman styles and built in 1907

First Church of Christ, Scientist (Christian Science Center), Boston, MA

Structural and building envelope rehabilitation of the Mother Church, Extension, and Publishing House



Old State House, Boston, MA



Catholic Cathedral of
St. Louis, St. Louis, MO



Loyola High School, Ruppert
Hall, Los Angeles, CA



Allen House, Boston, MA



Palace of the Legion of
Honor, San Francisco, CA



Quincy Market, Boston, MA

PRESERVATION PROJECTS (pre- 1930s buildings)

Gardiner National Historic District, Gardiner, ME

Condition assessment and repair planning for 43 predominantly brick buildings constructed in mid-1800s, as part of the city's rehabilitation plans for participation in the National Main Street Program

Grand Central Terminal, New York, NY

Roof and cornice restoration of building designed by Reed & Stem and Warren & Wetmore

Harrison Gray Otis House, Boston, MA (Historic New England Headquarters)

Replacement of roof and chimneys of 1796 Charles Bulfinch building

Harvard Business School, Gallatin Hall, Boston, MA

Structural engineer for renovations and alterations of a five-story, 50,000 sq ft, landmarked building designed by McKim Mead & White

Harvard University, Fogg Art Museum, Cambridge, MA

Repair of roof and wall leakage of building designed by Richard Morris Hunt

Harvard University, Sever Hall, Cambridge, MA

Structural engineer and facade consultant for rehabilitation of building designed by H.H. Richardson circa 1878

Herald Examiner Building, Los Angeles, CA

Facade and roof rehabilitation design for 1920 building designed by Julia Morgan

John Adams Courthouse, Boston, MA

Comprehensive repairs of 1894 courthouse designed by George Clough

Johnson and Wales University, Summerfield Building, Providence, RI

Structural and building envelope repair of 1914 Albert Harkness building

Leigh Street Armory, Richmond, VA

Structural stabilization and restoration of oldest armory building standing in Virginia (ca. 1895)

Lincoln Public Library, Lincoln, MA

Building condition assessment and design of prioritized repairs for library designed by William G. Preston and opened to the public in 1884

Loyola High School, Ruppert Hall, Los Angeles, CA

Envelope investigation of 1926 building and design of repairs for brick and cast stone facades, stained glass windows, clay tile roofs, and copper flashings

Luzerne County Courthouse, Wilkes-Barre, PA

Interior and exterior dome restoration of Classic Revival courthouse building

Lyceum Theatre, New York, NY

Exterior rehabilitation of 1903 Beaux Arts theater designed by Herts & Tallant

King's Daughters Home, Oakland, CA

Masonry facade restoration of historic landmark building designed by Julia Morgan and built between 1908-1912

Marble Collegiate Church, Fifth Ave. and 29th St, New York, NY

Structural modifications of 1854 church designed by Samuel A. Warner

Massachusetts State House, Boston, MA

Structural and building envelope repairs to building designed by Charles Bulfinch, built in 1795-98 with subsequent additions

Melvin Memorial, Sleepy Hollow Cemetery, Concord, MA

Investigation of cracking and deterioration of marble monument designed and sculpted by Henry Bacon and Daniel Chester French and erected in memory of three brothers who died in the Civil War

Milwaukee City Hall, Milwaukee, WI

Structural and building envelope rehabilitation of nine-story civic building designed by H.C. Koch & Co. and built in 1893



Montauk Lighthouse,
Montauk, NY



Marble Collegiate Church,
New York, NY



New York State Capitol
Building, Albany, NY



Eldridge Street Synagogue,
New York, NY



Emerson Majestic Theatre,
Boston, MA



San Buenaventura City Hall,
Ventura, CA

PRESERVATION PROJECTS (pre- 1930s buildings)

Modern Theatre, Boston, MA

Structural stabilization of gabled roof of 1876 theater building designed by Wallace Sabine and Clarence Blackall

Montauk Lighthouse, Montauk, NY

Structural and leakage evaluation and rehabilitation of 1796 lighthouse designed by John McComb

Mount St. Mary's College, Doheny Mansion, Los Angeles, CA

Building envelope materials conservation and waterproofing as part of historic structure report for building designed by Theodore A. Eisen and Sumner P. Hunt and built in 1898

National Center for the Preservation of Democracy, Los Angeles, CA

Structural, building envelope, and interior investigation and recommendations for conservation of facades and interiors

National Park Service

Pier One at Fort Mason Soil-Structure Interaction Analysis, San Francisco, CA
David Wills House Rehabilitation (ca. 1800), Gettysburg National Military Park
L'Hermitage Stabilization Design (ca. 1795), Monocacy National Battlefield
Newcomer Barn Museum at Antietam, Assessment and Restoration

National Sports Museum, 26 Broadway, New York, NY

Structural strengthening of building designed by Carrere and Hastings

Natural History Museum, Los Angeles, CA

Building envelope investigation and prioritized repair recommendations including terra-cotta, brick masonry, and ceramic tile clad domes for original 1913 Beaux Arts building listed on the National Register of Historic Places

New York State Capitol Building, Albany, NY

Comprehensive rehabilitation of state house building designed by Leopold Eidlitz and H.H. Richardson and built between 1869 and 1899

Old City Jail, Charleston, SC

Comprehensive condition assessment of structure and building envelope and repair design as part of Save America's Treasures Program for building constructed in stages between 1796 and 1859

Old State House, Boston, MA

Structural investigation and repairs of Massachusetts state house built in 1748 in the Georgian style, Boston's oldest public building; architect unknown

Omni Hotel, San Francisco, CA

Building envelope engineering and conservation of 1927 brick and cast stone clad office building for reuse as a hotel

Palace of the Legion of Honor, San Francisco, CA

Investigation of cracking of new marble and travertine paving in structure designed by George Applegarth and H. Guillaume and built in the 1920s

Paul Revere House and Pierce-Hichborn House, Boston, MA

Condition assessment for Master Plan for the 1683 Paul Revere House and 1711 Pierce-Hichborn House

Plymouth Rock Building, Boston, MA

Facade restoration of 1899 building designed by Arthur Bowditch

Quincy Market, Boston, MA

Copper dome restoration of 1826 building designed by Alexander Parris

Nickerson House, Noble & Greenough School, Dedham, MA

Building envelope and structural condition assessment of house designed in concept by H.H. Richardson and completed after his death by his successor firm, Shepley Rutan and Coolidge



Mishawum Apartments,
Charlestown, MA



High School and Middle
School, Hopkinton, MA



Boston Food Bank, Boston, MA



Bristol Community College,
Building C and D, Fall River, MA



Wilshire Crest Elementary
School, Los Angeles, CA

SOLAR PHOTOVOLTAICS

Adams Court, 439 River Street, Mattapan, MA

Review of structural plans for installation of solar photovoltaic panels

660 Alabama Street, San Francisco, CA

Structural engineering for addition of solar panels

Annenberg Compania, Rancho Palos Verde, CA

Structural consultation on supports for photovoltaic arrays

Atlas Lofts, 88 Gerrish Avenue, Chelsea, MA

Structural evaluation and peer review of design of attachment and support for photovoltaic installation

Baldwin Hills Elementary School, 5421 Rodeo Road, Los Angeles, CA

Roof condition survey for photovoltaic panel installation

Boston Convention and Exhibition Center, 415 Summer Street, Boston, MA

Solar photovoltaic energy feasibility study

Boston Food Bank, 70 South Bay Avenue, Boston, MA

Review wind-load calculations, building review, and design of attachment for solar panels

BP Solar, San Francisco, CA

Structural engineering services in conjunction with product development

Buildings C and D, Bristol Community College, Fall River, MA

Engineering services for structural support for photovoltaic panel roof support

Cape Cod Healthcare, Hyannis, Falmouth, Mashpee, and Sandwich, MA

Structural engineer consultation for photovoltaic rooftop panels

Champ Homes, Various Locations, Massachusetts

Review of wind loads and design of attachment for solar panels on building roofs

Fire Station, Police Station, High School and Middle School, Town of Hopkinton, MA

Evaluation of roof structures and lateral systems for photovoltaic panels on four buildings

GreenRay Photovoltaic Panel Mounting System, Westford, MA

Assessment of mounting system for product to be used in California, Massachusetts, and New Jersey

Henry Clay Middle School, 12226 S. Western Avenue, Los Angeles, CA

Roof condition survey for photovoltaic panel installation

Hockey Rink, Avon Old Farms School, Avon, CT

Design consulting on photovoltaic panel installation

Humane Society of Silicon Valley, Milpitas, CA

Evaluation of roof structure and lateral system for photovoltaic panels

Lancaster Street, Cambridge, MA

Evaluation of roof structure and lateral system for photovoltaic panels

L.B. Johnson Apartments, 150 Erie Street, Cambridge Housing Authority, Cambridge, MA

Peer review of engineering for photovoltaic installation

Lowell Regional Transit Authority, 100 Hale Street, Lowell, MA

Structural and roofing investigation and upgrade to support new roof-mounted solar photovoltaic installation

Luther Burbank Junior High School, Burbank, CA

Structural engineering study for addition of rooftop solar panels

Manhattan Place Elementary School, 1850 W. 96th Street, Los Angeles, CA

Roof condition survey for photovoltaic panel installation

SOLAR PHOTOVOLTAICS



Boston Convention and Exhibition Center, Boston, MA



Visiting Nurses Association Assisted Living Residences, Somerville, MA



Lowell Regional Transit Authority, Lowell, MA



Wellesley Middle School, Wellesley, MA



660 Alabama Street, San Francisco, CA

Marvin Elementary School, 2411 Marvin Avenue, Los Angeles, CA

Roof condition survey for photovoltaic panel installation

Mishawum Apartments, 335 Main Street, Charleston, MA

Review of wind loads and design of attachment for solar panels on building roofs

National Institute of Standards and Technology, Gaithersburg, MD

Structural design of support of solar panel installation

North Village, Webster, MA

Review of wind loads and design of attachment for solar panels on building roofs

North Canal Apartments, 517 Moody Street, Lowell, MA

Structural peer review of solar panel design for building roofs

Norwell Middle School, Town of Norwell, MA

Review of structural issues related to solar panel installation

Old Colony Apartments, Phase One Development, 262 Old Colony Avenue, South Boston, MA

Peer review of structural issues related to solar panel installation

Partners Health Care, Charlestown, MA

Roof evaluation for solar panel installation

Pier 96, San Francisco, CA

Feasibility study for placing solar panels on existing roof

Quaboag Regional School District, Warren, MA

Peer review of engineering for photovoltaic installation

Quincy High School, City of Quincy, MA

Roof evaluation for solar panel installation

Riverview, Pittsfield, MA

Review of wind loads and design of attachment for solar panels on building roofs

Solyndra Corporation, Fremont, CA

Design consultations for Panelized Structures, Inc. solar panel equipment installation

Visiting Nurses Association Assisted Living Residences, 259 Lowell Street, Somerville, MA

Structural engineering for photovoltaic array

Walden Square, Cambridge, MA

Review of wind loads and design of attachment for solar panels on building roofs

Washington Elms, 131 Washington Street, Cambridge, MA

Review of wind loads and design of attachment for solar panels on building roofs

Wellesley Middle School, 40 Kingsbury Street, Town of Wellesley, MA

Investigate capacity of school roof to support proposed solar array

Wheatley Building, Boston Harbor Campus, University of Massachusetts, Boston, MA

Review of framing for solar panel loads

Wilshire Crest Elementary School, 5241 W. Olympic Boulevard, Los Angeles, CA

Roof evaluation for solar panel installation

SUSTAINABLE DESIGN



California Academy of Sciences at Golden Gate Park, San Francisco, CA



Big Blue Bus Facility, Santa Monica, CA



Letterman Digital Arts Center, San Francisco, CA



Sidwell Friends School, Washington, DC



Macallen Building Condominiums, Boston, MA



Lawrence Berkeley National Laboratory, Molecular Foundry, Berkeley, CA

175 Wyman Street, Hobbs Brook Park, Waltham, MA

Building envelope design of a new office building, certified LEED Gold

1100 Broadway, Oakland, CA

Structural design of new twenty-story pre-certified LEED Platinum building and preservation of connected seven-story national historic landmark building

245 Summer Street, Boston, MA

Design and construction monitoring for roofing and below-grade waterproofing systems including a new green roofing system for LEED Silver certified building

525 Golden Gate Avenue, San Francisco, CA

Building envelope design of fourteen-story office building for LEED Silver certification

Big Blue Bus Maintenance Facility Expansion, Santa Monica, CA

Building envelope and waterproofing consulting for new 66,000 sq ft facility featuring rooftop photovoltaic panels and many other sustainable features.

Blue Cross Blue Shield of Massachusetts, Headquarters Building, Hingham, MA

Building envelope and building science engineering, LEED Silver certified

Boston University Medical Center, BioSquare Discovery and Innovation Center, Research Building D, Boston, MA

Building envelope design peer review of new biomedical research facility, LEED Certified

California Academy of Sciences at Golden Gate Park, San Francisco, CA

Building envelope design consultant for project with a three-acre green roof, LEED Platinum certified

David Brower Center, Berkeley, CA

Building envelope consulting and below-grade waterproofing for a new office building made of 53% recycled material, LEED Platinum certified

De Anza College, Mediated Learning Center, Cupertino, CA

Roofing and waterproofing consulting for new 65,000 sf classroom addition seeking LEED Platinum certification

Folsom + Dore Apartments, San Francisco, CA

Building envelope design peer review of \$26.5 million first multifamily housing project in Northern California to receive LEED Silver certification

Harvard Business School, Gallatin Hall Renovations, Boston, MA

Structural engineer for comprehensive building renovations, LEED Gold certified

Harvard University, University Commons, Cowperthwaite Hall, Cambridge, MA

Building envelope design consulting, including roofing and waterproofing, for new six-story residence hall, LEED Gold certified

Internal Revenue Service, Andover, MA

Structural analysis and rehabilitation for renovation to 11-acre building seeking LEED Certification

Jet Propulsion Laboratory, New Administration Building, Pasadena, CA

Structural design for new 96,000 sf high-performance office building seeking LEED Silver certification

Lawrence Berkeley National Laboratory, Molecular Foundry, Berkeley, CA

Building envelope design for roofing and waterproofing of new nanotechnology research facility, the first LEED Gold certified building in the City of Berkeley

Letterman Digital Arts Center, San Francisco, CA

Building envelope design of four interconnected buildings with three- and four-story subterranean parking garages built ten feet into the water table—applying for LEED certification

Macallen Building Condominiums, Boston, MA

Structural and building envelope design of a 140-unit building and the first multiunit housing in Boston with LEED Gold certification

Environmental and Ag Lab Building Flood Proofing, Waterbury, VT – Civil and structural Design services have been provided for flood protection at this two-story, slab on grade steel frame building at the State of Vermont Office Complex in Waterbury. Additionally, Engineering Ventures has a long-standing history of projects at the State Office Complex and has been involved in evaluation and repair of many buildings damaged by Irene for the Preservation Trust of Vermont and Revitalize Waterbury.



State of Vermont Public Safety Building, Waterbury, VT – Structural engineering services were provided for design of new structural floor support for the UPS equipment, a new exterior mechanical unit concrete pad and entrance/exit slab-on-grade, improvements to roof framing, attic floor framing, and the lateral load resisting system, the chimney removal of the old incinerator and new mechanical floor penetrations in the existing concrete slab.



Goodyear Industrial Park, Town of Windsor, VT - Performed an evaluation and provided environmental services for the buildings, site and campus of the Goodyear Tire and Rubber Company. Developed a building and schematic site plan which depicted the general structural framing and mechanical/electrical systems. Winner of an ACEC Excellence in Engineering award.



Hanover Block Redevelopment, Hanover, NH - Civil and structural engineering services were provided for the complete redevelopment of most of a downtown city block. Services include substantial permit negotiation and a wide array of new and rehabilitated utilities both on site, and off.



Biddeford Mill District Redevelopment, Biddeford, ME – Engineering was provided for a Mill District Masterplan for the re-use of 2 million sf in existing 19th century mill buildings, the redevelopment potential of 20 acres of underutilized parcels, the development of a riverwalk and open space system, an infrastructure plan, a strategy for parking and transit, design and streetscape guidelines and an implementation and funding strategy.



Kimball Union Academy, Meriden, NH – A Facilities Study was performed to review the condition of 30 structures on campus to determine the general condition and code condition. Structural services were provided for additions and renovations to allow the library to move into Miller Commons and for the Student Center to move into the Dining Commons.



Burnham Hall, Lincoln, VT – Civil and structural engineering services were provided to remove and replace the existing floor slab to install a collection system to dewater the subgrade throughout the floor area. The work included design of a groundwater collection system immediately adjacent to the existing building, and design of the groundwater pumping system, including floor sumps, a small sump for the pump, and discharge piping to a positive outlet on the outside of the building wall.



Barre Old Labor Hall, Barre, VT – This project includes floodproofing, for wet and dry, in an historic building in Barre. A structural assessment of the interior and exterior conditions, foundation, exterior fire escape, porches, entrances, and exits was performed for remediation. A study is underway to acquire funding for the rehabilitation in zone A for FEMA.



Mt. Anthony Union High School, Bennington, VT – This wood chip facility was constructed with a deep foundation in very porous stratum. A waterproofing foundation was installed with a back up pump system, capable of removing 600 gallons of groundwater per minute.



Freeman Hall, Champlain College, Burlington, VT – This historic multiuse building was experiencing drainage issues at the foundation and under the footings. Civil services provided included proper drainage and free draining backfill.



Staff Development for Educators Warehouse, Peterborough, NH – Civil engineering, foundation design, and permitting services were provided for a 35,000sf addition (15,750sf of which is a future phase), roughly 600' truck access drive plus aprons and loading docks (8), 20 parking spaces adjacent to addition and 43 parking spaces plus drives across street, miscellaneous walks, 100' waterline service connection, adaptation and reuse of existing sewer service line, stormwater conveyance and treatment.



Ham Ice Arena, Conway, NH - Site design and permitting for a 40,000 SF ice skating facility located on 18 acres on the shores of Peaquawket Pond. The parcel included 13 acres of wetlands. The site was flat with a high water table and precluded the use of infiltration or detention basin for storm water treatment. State permits required included the Site Specific Permit for the Department of Environmental Services, which included the Shoreland Protection Act and the Wetlands Permit.



George D. Aiken Hall, University of Vermont, Burlington, VT – Civil and structural engineering services are currently being provided for the renovation and expansion of the Building of Natural Resources. The project includes a green roof system, a 2500sf solarium addition, an ecomachine, and will provide a new face for this prominent building at the entrance to the UVM campus. LEED Platinum Certification.



Dartmouth College Life Sciences Building, Hanover, NH – Civil services were provided for this new 170,000 sf facility with 30 wet labs, offices, conference rooms, theater and amphitheater classrooms, and teaching labs. Services include site layout and grading, campus and municipal based utilities, vehicle circulation and parking, demolition and reuse design, roof water collection and re-use (estimated at 1mil gallons/year), quad infiltration and Rain Garden. LEED Platinum Certification.



Roger H. Perry Hall, Champlain College, Burlington, VT – Civil and structural engineering services were provided for the restoration of this 150 year old, Italianate-style brick building for reuse as the campus Welcome Center. The project included an innovative wetland garden on the lower edge of the property designed to absorb storm water runoff, as well as a Geothermal pump, and has been awarded LEED Platinum.



Putney School Field House, Putney VT – Structural services were provided for a 15,000 sf, multi-purpose field house adjacent to the Dining Hall with a Pedestrian Link. The facility, is a net zero building, which will produce more energy than it consumes. This project received a LEED Platinum Certification.



Dudley H. Davis Student Center, UVM, Burlington, VT – At 186,000 sf, the Davis Center houses a four-story atrium, bookstore, retail & pub/bistro, ballroom, conference and meeting room, offices for the student associations and services, and loading dock, and terraces. This building received LEED Gold Certification and the 2008 ACEC Grand Award for Excellence in Engineering.



AVA Gallery, Lebanon, NH – Civil engineering and permitting services were provided for the additions and renovations to this historic three-story, 36,000 sf, downtown mill building. The stormwater management system includes a subsurface stormwater infiltration gallery. This project achieved LEED Gold Certification.



Bennington Downtown State Office Building, Bennington, VT – Civil and structural services were provided for the rehabilitation of this dilapidated two-story building, with unreinforced brick walls. The existing addition was deemed unsalvageable, while the remainder of the building was reinforced with steel and wooden beams. Extra effort was taken in creating an energy efficient edifice, with a geothermal cooling system and drains.



Vermont Supreme Court Building Study, Montpelier, VT – Structural engineering assessment and analyses as part of feasibility study concerning building conversion to use for State Archive facility. Gravity and seismic load work was conducted and included designs to reduce code mandated upgrades. Building is multi-story reinforced concrete superstructure.



Bristol Holley Hall, Bristol, VT – A structural conditions assessment and upgrades were performed on the entire building from the bell tower, roof, overhanging balcony, main floor and foundations. Work to the roof framing included upgrades to the heavy timber trusses and purlins. The main floor was upgraded to meet current Code requirements to hold public events. Three new additions were added to create handicap access to the lower Municipal offices and main level Town Hall.



Akeley Memorial Building Cupola Rehabilitation, Stowe, VT – Structural engineering services are being provided for renovations including a two-story vault addition, entry canopy projects, design of the existing flag pole support, replacement of the existing support columns and anchorage of the cupola to the existing roof structure.



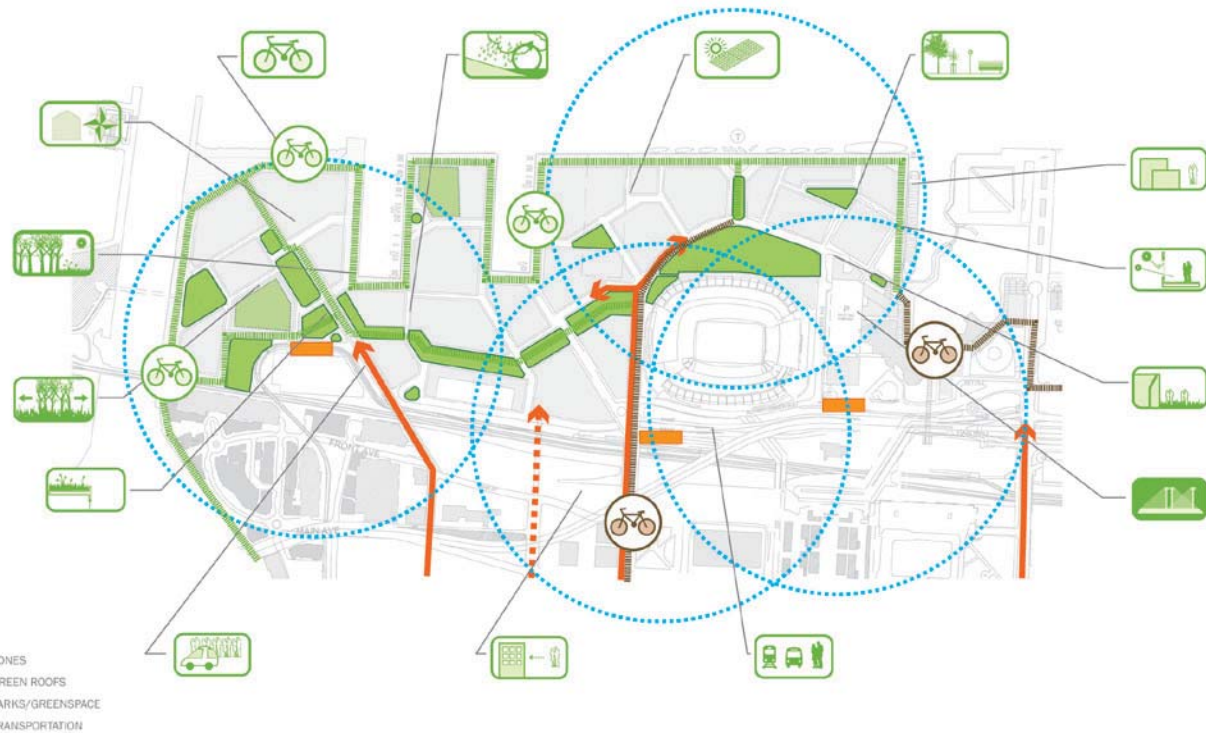
Addison County Sheriff's Office, Middlebury, VT – Renovations were made to this 5,000 sf, 1800's original jail house. An addition was created to provide new office space, a drive through bay for loading and unloading prisoners, and a concrete exterior exercise yard with a steel framed safety enclosure.



Stowe Municipal Building, Stowe, VT – A preliminary structural review was performed on this 1800's building to determine the priorities for immediate structural stabilization and structural code compliance for a renovation project. Recommendations were made for immediate repairs.

Cleveland Waterfront Masterplan

Ehrenkrantz Eckstut & Kuhn Architects



1

Atelier Ten shaped the vision for the Cleveland Waterfront's sustainable strategy through recommending a unique diagonal street orientation. Blocks are angled to maximize daylight to the interior park system, while blocking the outdoor open space from cold winter wind.

DETAILS

LOCATION: CLEVELAND, OH
AREA: 100 ACRES
DATE: 2009

SERVICES

ENVIRONMENTAL DESIGN CONSULTING
MASTERPLANNING

Atelier Ten worked with Ehrenkrantz Eckstut & Kuhn Architects and the Cleveland Port Authority to develop the sustainable vision masterplan for the proposed development.

This redevelopment will transform over 100 acres of industrial waterfront property into a vibrant urbanized neighborhood with an interior park system, open public spaces, attractive event areas, cultural exhibitions, and retail spaces.

As part of the masterplan, Atelier Ten analyzed local climate data to determine opportunities for passive street orientation and helped identify appropriate opportunities to create a comfortable outdoor microclimate environment, especially during the long winter months.

The resulting masterplan comprehensively addresses outdoor comfort, alternative transportation accessibility, and site-wide resource management, to reduce the development's carbon emissions.



2

1 SUSTAINABLE STRATEGIES DIAGRAM

Atelier Ten's analysis and recommendations directly led to the development's articulated street layout. Atelier Ten is also proposing strategies to encourage alternative transportation use to and from the development.

2 INTERIOR PARK SYSTEM

Stormwater management is enhanced both at buildings and along the interior park system. Through the integration sustainable water and landscape infrastructure, the site can collect and treat stormwater and site runoff from the downtown area.

Campus Masterplan, Duke University

Pelli Clarke Pelli Architects



3499

1

For Duke's campus expansion, Atelier Ten provided the design team with the analysis and consulting necessary to implement sustainable guidelines in a comprehensive new masterplan.

DETAILS

LOCATION: DURHAM, NC
AREA: 1.5M SQ FT
DATE: ONGOING

SERVICES

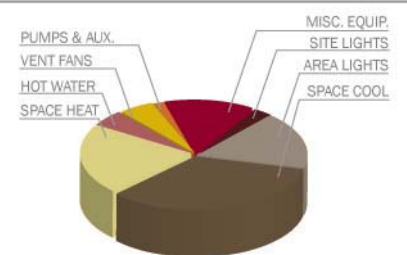
ENVIRONMENTAL DESIGN
MASTERPLANNING

This new central campus location will add much-needed state-of-the-art facilities to expand the university and replace existing low-rise student housing.

As part of the masterplanning effort, Atelier Ten helped the university fulfill its commitment to sustainability by analyzing the benefits and performance of different levels of design for buildings, transportation, and utilities infrastructure.

Atelier Ten also reviewed and evaluated existing university sustainability commitments to establish additional project goals. Atelier Ten helped guide design decisions as they pertained to energy systems, building massing and orientation, site planning, transportation, water management, and other sustainable design aspects of the project. The final design addressed the university's future Carbon Emissions targets and incorporates strategies for renewable energy production.

Annual Energy Consumption
All Buildings



2

1 GREENSPACE

The orientation and massing of the new buildings will connect the campus green spaces and develop a visual connection to the landscape.

2 ENERGY ANALYSIS

Atelier Ten calculated the campus energy distribution to target areas for carbon emissions reductions.

Stoeckel Hall, Yale University

Charney Architects



3541



2



3

Stoeckel Hall, home of Yale's School of Music, was completely restored and expanded with an eye towards sustainability. Atelier Ten encouraged the reuse of many of the building's existing features while incorporating glazing and envelope improvements to reduce overall energy load.

DETAILS

LOCATION: NEW HAVEN, CT
AREA: 22,990 SQ FT
COST: \$13.4M
DATE: 2009

SERVICES

ENVIRONMENTAL DESIGN
LEED ADMINISTRATION
ENERGY MODELING

LEED GOLD

Stoeckel Hall, originally built in 1897, was able to achieve a LEED gold rating for its renovation, through Atelier Ten's close guidance of the sustainable design strategies. The structure demonstrates exceptional material reuse, including complete restoration of the exterior terra cotta, retention of original wood windows with upgraded glazing, and a total building re-use of 87% of the existing envelope and structural components.

The building demonstrates 36% potable water savings with dual-flush toilets and low-flow faucets that have flow-rates below the minimum EPA requirement. Additionally, the surrounding landscape was designed to require no additional irrigation.

Stoeckel Hall also earned sustainable site credits due to its location near copious public and campus transportation options and its adjacency to a zip-car parking area.

1 HIGH PERFORMANCE GLAZING

Atelier Ten was key in recommending and testing glazing options. The replacement of the original windows with high performance glazing contributes to the overall energy savings of the building without compromising historic significance of existing windows.

2 BUILDING AND MATERIAL REUSE

The building's renovation strategy kept beautiful historical interior details such as the existing fireplace and bookshelves, many of the walls, floor, and ceilings.

3 ENERGY ANALYSIS

Atelier Ten modeled the existing building with its new addition to determine that the building systems, combined with the envelope improvements predict an annual energy savings of 14.5% and energy cost savings of 13.3% compared to a baseline building.

Columbia Manhattanville Expansion, Phase I

Renzo Piano Building Workshop with Davis Brody Bond



Atelier Ten is working closely with Renzo Piano Building Workshop, Davis Brody Bond, Columbia University, and the rest of the design team to define and achieve ambitious environmental aspirations for the new Manhattanville campus.

DETAILS

LOCATION: NEW YORK, NY
AREA: 17 ACRES / 6.8 MILLION SF
DATE: IN DESIGN

SERVICES

MASTERPLANNING
ENVIRONMENTAL DESIGN
ENERGY ANALYSIS: BUILDINGS + CENTRAL PLANT
BENCHMARKING: LEED

The development of the new Manhattanville campus will include life science laboratories, the business school, and other academic and residential buildings. During the masterplan phase, Atelier Ten developed the Columbia University Environmental Sustainability Framework (CUESF), which set stringent environmental targets for all future development.

As part of Phase I, for the design of the Mind Brain Behavior (MBB) building, Atelier Ten guided the design of a high-performance façade that meets high environmental and acoustic requirements, while introducing a new architectural language to upper Manhattan. Atelier Ten is also working closely with the engineers to increase energy savings through optimized laboratory ventilation rates and innovative conditioning strategies.

Typical of a laboratory building, the MBB building has a very intensive process water demand. By exploring opportunities for stormwater and greywater reuse and decreased cooling tower use, the MBB Building and surrounding Phase I development seeks to meet significant potable water reduction targets as outlined in the sustainability framework.

1 PLAN OVERVIEW

The phased expansion will encompass four New York City blocks in Manhattan.

2 HIGH PERFORMANCE FACADES

Atelier Ten is working with the design team to optimize facade designs for visual and thermal comfort, setting the architectural language for the campus.

3 STORMWATER AND LANDSCAPE

Atelier Ten calculated sitewide stormwater runoff quantities and potential for reuses for the landscape and building features.

Langone Medical Center Masterplan, NYU

Polshak Partnership



Atelier Ten is developing NYULMC's environmental framework, which will help the campus significantly reduce both carbon emissions and its overall environmental footprint, while enhancing the health of all patients, employees and visitors.

DETAILS

LOCATION: NEW YORK, NY
AREA: 3.7M SQ FT

SERVICES

MASTERPLANNING
ENVIRONMENTAL DESIGN
BENCHMARKING: LEED

In keeping with the medical profession's central mission; "First do no harm," NYULMC is comprehensively improving the operations of their existing campus. Taking an expanded view to encompass environmental, economic and social issues, this framework is helping NYULMC develop a model healthcare environment for the 21st Century.

Atelier Ten has helped develop strategies for improvement across six major areas: energy & carbon emissions, water conservation, site & landscape, health & productivity, and materials. As part of these guidelines, Atelier Ten is using technical analysis to identify challenging, yet achievable energy performance targets. Separate targets were assessed and specified for existing buildings, new construction, and leased spaces.

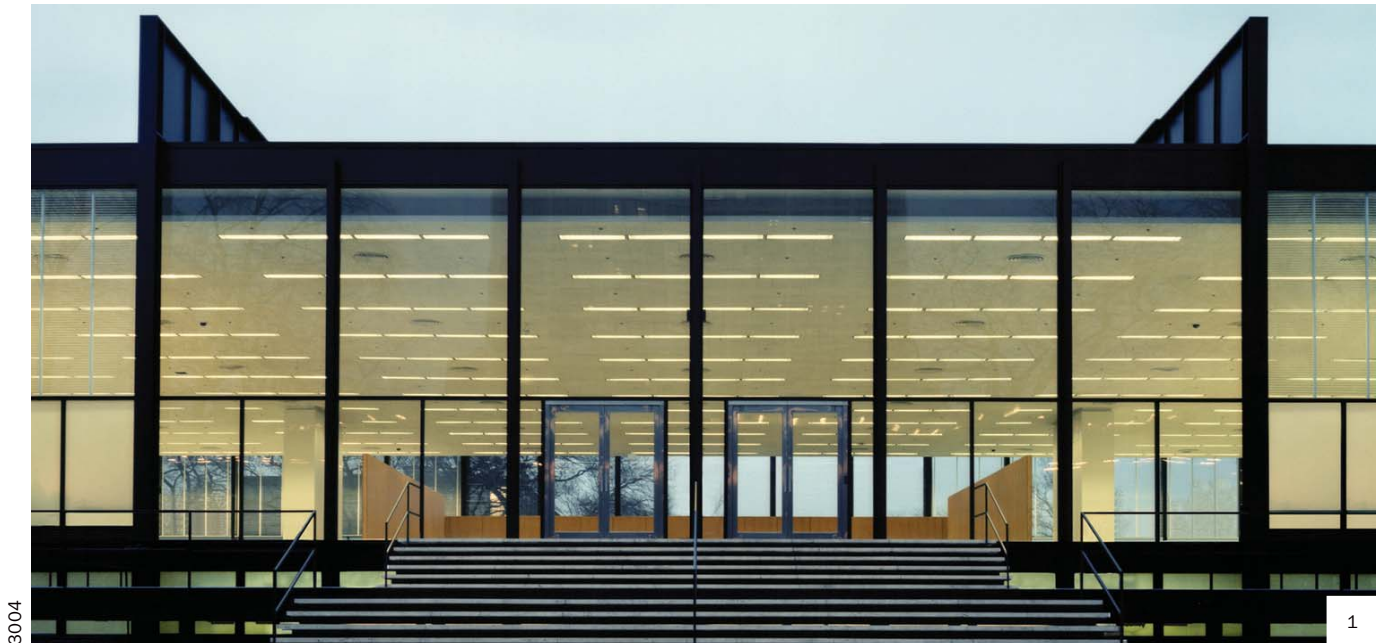
Atelier Ten is also helping implement a management system to monitor the success of these different strategies through building monitoring, target evaluation and updating the campus framework every three to five years.

1 ENERGY AND CARBON

The environmental framework will address how the university can meet its sustainability commitments, notably including reducing its own carbon emissions by 30% by 2017. Critically, Atelier Ten is identifying campus-wide system improvement opportunities such as renewable energy generation, reducing lighting power density, and managing stormwater through greenroofs.

S.R. Crown Hall Renovation

Krueck + Sexton Architects and McClier



3004

1

Atelier Ten and Transsolar developed an environmental renovation strategy that not only reduces the building's energy consumption by 50% while greatly improving occupant comfort, but also restores many of Mies van der Rohe's original design concepts.

DETAILS

LOCATION: ILLINOIS INSTITUTE OF TECHNOLOGY
CHICAGO, IL

AREA: 50,000 SQ FT

COST: \$4 M (FACADE RENOVATION ONLY)

DATE: 2005

SERVICES

ENVIRONMENTAL ASSESSMENT
RENOVATION CONCEPT

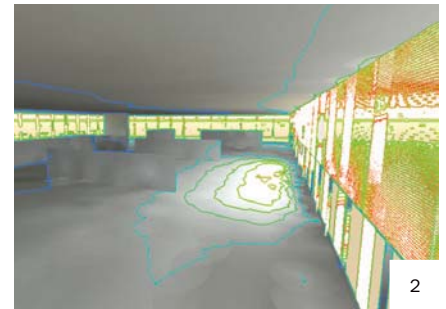
Crown Hall, home to the Architecture School at IIT, is a cherished icon of 20th century architecture. Atelier Ten and Transsolar explored how comfort and conditioning problems could be addressed in upcoming renovations. The challenge was to develop a design which allowed continued use of the building's original mixed-mode ventilation strategy without changing the appearance of this masterpiece while improving comfort and energy efficiency. Some proposed measures restore elements of the original design, such as replanting trees along the south and west façades, while others focus on upgrading technical systems, such as upgrading the lighting system, restoring the natural ventilation panels, adding modern controls, and improving the radiant floor system.

1 FACADE RESTORATION

The new facade uses higher-performance glass to improve solar gain and comfort as well as renovated natural ventilation openings. Automated interior blinds are also proposed.

2 DAYLIGHT SIMULATION

Improved daylight distribution combined with electric lighting zoning, dimming,



2



3

and nighttime scene settings will reduce lighting consumption energy by 94%.

3 LANDSCAPING

Replanting trees included in the original landscape design provide necessary shading to reduce solar heat gain and cooling energy.

Blue Ball Dairy Barn Restoration and Addition

Wallace, Roberts and Todd



Atelier Ten helped optimize the environmental performance of this highly-awarded LEED Gold building. This renovation manages a balance of historic preservation, high design, and sustainability.

DETAILS

LOCATION: WILMINGTON, DE

AREA: 14,000 SQF

COST: \$4.6 MILLION

DATE: 2007

SERVICES

ENVIRONMENTAL DESIGN CONSULTING
ENERGY ANALYSIS

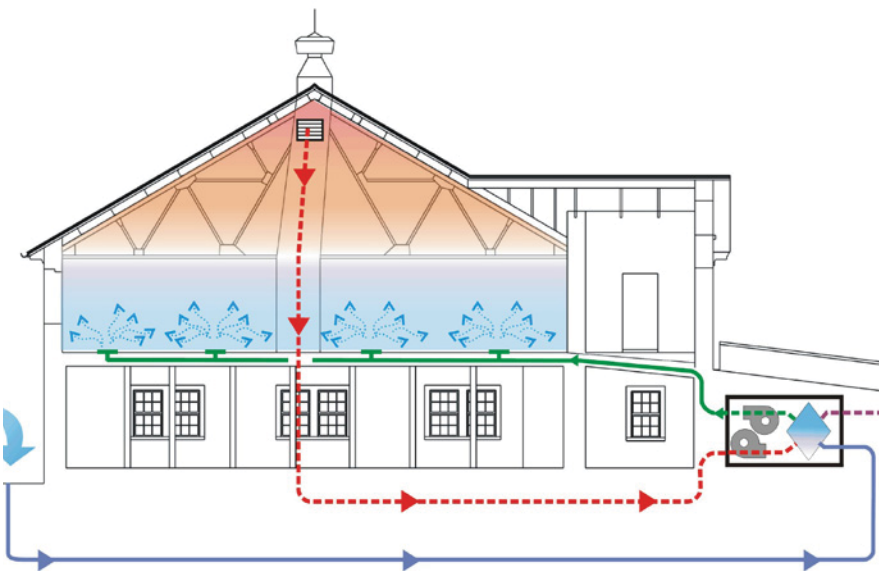
Atelier Ten helped the design team meet the project's historic preservation challenge through detailed building performance simulation. The change of barn use posed particular challenges in assessing how to best reduce heating and cooling loads and reducing the risk of condensation. Atelier Ten successfully quantified the condensation risk, assessed alternative construction and renovation options, and optimized the shading design on the building addition to keep excessive light and heat out.

1 FACADE

The historic barn has been repurposed into a community museum, conference center, and playground. Atelier Ten helped configure the high performing facade on the addition.

2 SYSTEMS

Atelier Ten proposed the innovative displacement ventilation HVAC system with radiant heating and cooling for the barn, which reduces energy demands while helping to preserve some of the building's original features.



AWARDS

2008 HONOR AWARD AIA PHILADELPHIA

2008 HONOR AWARD AIA DELAWARE

2008 PRESERVATION ACHIEVEMENT AWARD

PRESERVATION ALLIANCE OF PHILADELPHIA

LEED GOLD

Arts Complex, Yale University

Gwathmey Siegel & Associates



Through Atelier Ten's design guidance, the refurbished and expanded Yale Arts Complex meets modern high performance building standards, including significantly improved energy efficiency and occupant comfort, while adhering to stringent requirements for the original building's historic preservation.

DETAILS

LOCATION: NEW HAVEN, CT
AREA: 200,000 SQ FT
COST: \$60 M
DATE: 2008

SERVICES

ENVIRONMENTAL DESIGN
BENCHMARKING: LEED
ENERGY ANALYSIS

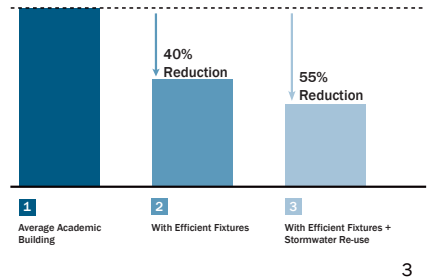
LEED GOLD

Originally designed by Paul Rudolph, the iconic Art + Architecture building of 1963 posed extraordinary comfort and energy challenges for the design team. In response, Atelier Ten introduced a variety of efficiency strategies, including replacing the existing glazing with a new high performance facade while retaining over 90% of the original structure. This continuous double glazed, thermally-broken glazing reduces peak solar loads while maintaining ample daylight through a spectrally selective low-e coating. The extensive daylighting also significantly reduces electric lighting costs and connects occupants to the outdoors.

The Arts Complex also improves the surrounding site and campus by incorporating landscape elements which mitigate urban heat island effect: a 2,300 SF green roof and high Solar Reflectance Index paving and roofing materials.



Water Usage and Savings



1 SYSTEM REPLACEMENT

The original modernist structure of 1963 (left), designed by Paul Rudolph, with the new Loria Center (right). The addition of the Loria center enabled an entire replacement of the old building systems in Rudolph Hall, with brand new high efficiency systems serving both buildings from the Loria Center.

2 RADIANT PANELS

Radiant panels in studio spaces directly heat and cool occupants and objects instead of air, saving energy and increasing comfort. Enthalpy heat exchangers in air handling units further the energy savings by preheating and precooling ventilation air.

3 WATER CONSERVATION

55% water savings is achieved through installation of low-flow fixtures, waterless urinals, and a stormwater cistern which captures roughly 72,000 gallons of rainwater from the roof annually.



Pearson & Associates

PROJECT INFORMATION

1. THE STOWEFLAKE MOUNTAIN RESORT AND SPA, STOWE



The Stoweflake Mountain Resort and Spa recently completed a 50,000 square foot addition that included swimming pools, indoor and outdoor hot tubs, indoor waterfall and mineral pool and renovations of sports club locker rooms

Pearson & Associates provided the mechanical and electrical engineering for this exciting Project. Some of the engineering challenges included maintaining a variety of water temperatures for the different water features while insuring personal comfort levels and healthy building environment.

Some of the energy saving and energy efficient installations included:

- Geothermal heat pump systems for heating and cooling Spa Rooms and Guest Rooms.
- Electric Generator with cogeneration heat recovery for water heating.
- Heat recovery from commercial dryer exhaust for snowmelt water heating.
- Energy Recovery Exhaust and Fresh Air Supply for ventilation and dehumidification.
- Variable Speed supply air and exhaust air fans that supply fresh air on an 'as needed' basis.
- Fully Automatic Microprocessor control of water quality for pools and hot tubs.
- Digital control of water-to-water heat exchangers to precisely control water temperatures.



2. STOWE MOUNTAIN RESORT SNOWMAKING FACILITIES

Snowmaking Facilities involve complex integration of air, water and power to insure quality snow produced with efficient use of water and power.



Computer Controlled Snowmaking System



Proper planning and design of the electrical systems insure a neat and clean installation that functions at high efficiency levels. Stowe Mountain Resort received significant incentives from Efficiency Vermont for the Electrical Power and Control Systems for the snowmaking installation.

Owners Representative: Michael Manley, Operations Manager: (802) 253-3533



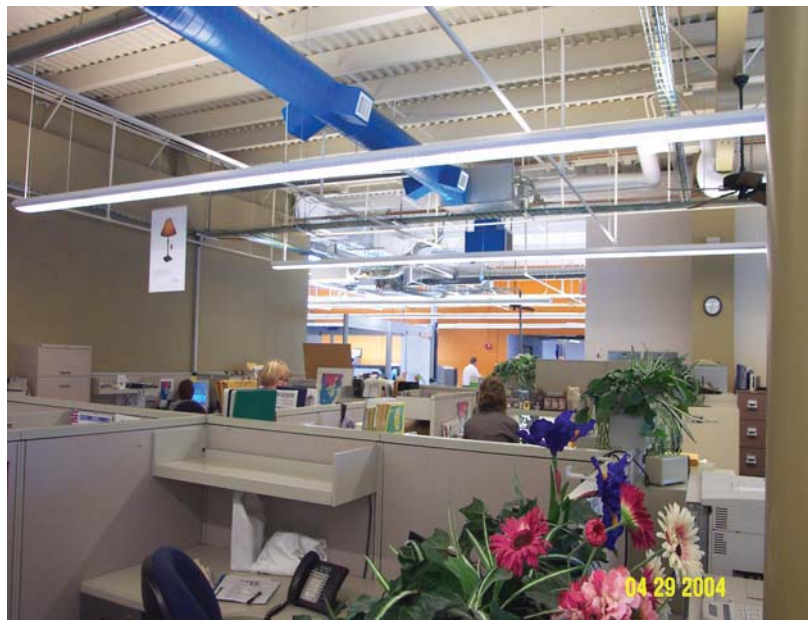
3. GREEN MOUNTAIN POWER OFFICES, MONTPELIER VERMONT AND COLCHESTER, VERMONT

Pearson & Associates provided mechanical and electrical engineering services for the renovation of the Green Mountain Power offices in Montpelier and Colchester.



“State of the Art” lighting and ventilation were incorporated to provide an open and comfortable working atmosphere.

Existing heat pump system was renovated and expanded to accommodate the additional office space and control center.



Total Project Cost: \$1,600,000 +

Mechanical and Electrical Engineers: PEARSON & ASSOCIATES

Architect: Wiemann – Lamphere

Owner: Green Mountain Power

Owner’s Representative Dave Lothrop-802 655-8787

Pell Marine Science Library Narragansett, RI, USA 2009

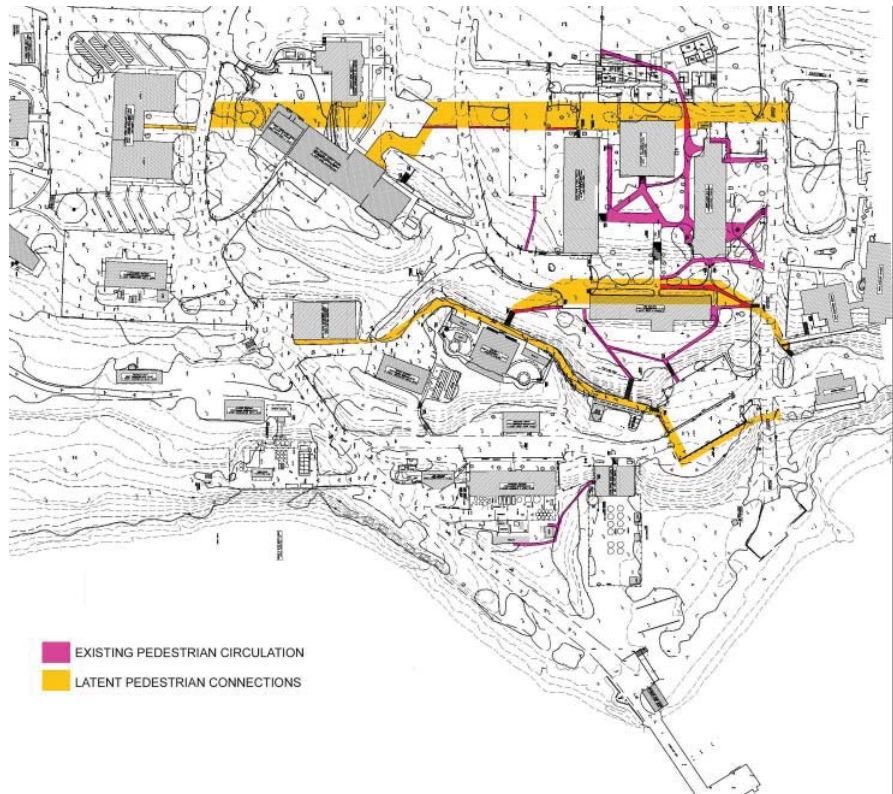
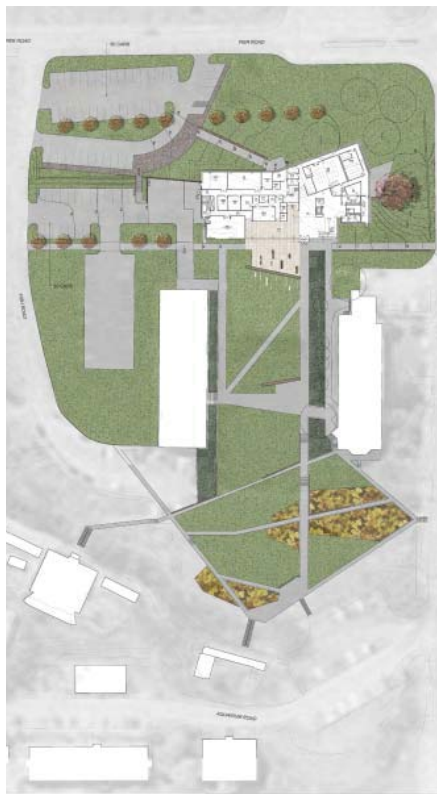
SIZE 4.3 acres

CLIENT University of Rhode Island

CONSTRUCTION BUDGET \$500,000

STATUS Complete

In collaboration with Burt Hill Rittlemann Kosar Architects, Landworks Studio has designed landscape spaces and larger systems of campus connections, which are in turn inspired by and reflective of the sense of research as both a physical as well as symbolic new center of campus. A large, distinctively sculpted lawn ripples from the compelling new Library structure toward the ocean below, knitting together a network of presently underutilized existing pathways and stairways. A major north/south pedestrian path system anchors the building to the new quad space while providing much sought after safe pedestrian access through the core of the campus, beyond the bounds of the site proper. A taunt, simple landscape and drop-off area at the new entry along the western face of the Pell Library also seeks to revitalize an underwhelming campus entry further to the north and west.



200 5TH AVENUE

New York, NY, USA 2010

SIZE 5,400 SF

CLIENT L&L Holding

COLLABORATORS Studios Architecture, Johnson
Light Studio

CONSTRUCTION BUDGET \$1,400,000 (landscape)

STATUS Complete

Landworks Studio and Studios Architecture have joined together to sensitively remodel a historic building situated adjacent to Madison Square Park that once served as a grand hotel and the International Toy Center. To create overall visual clarity and sense of place and in response to the sensitive nature of the historic building, the proposal is defined by the insertion of a simple 'floating' white tray and a 'levitating' light cloud. The two move seamlessly, transforming and adjusting to various spaces including the lobby, courtyards and balconies according to particular and highly localized situations, leaving intact the historic nature of the architecture. The resultant creates a range of gathering areas and striking views for building occupants.



Brandeis University,
Fellows Garden
Waltham, MA, USA

Status Construction Documents Complete

Area 105,500 SF

Construction Budget \$1,300,000

In their Master Plan report, Chan Krieger & Associates describe Fellows Garden as “a type of ‘sacred space’ that all places of higher education should have in plenty.” This quality of sacredness emerges both from its centrality (in relation to the greater campus) and circularity (in general outline), both of which suggest a clearing – a place of gathering and rest. In contrast, its location approximately midway along the campus-long pedestrian spine, renders it equally important as a nexus of circulation, a place of connection and movement.

Suffering strongly from a lack of spatial, programmatic, and visual clarity, Fellow's Garden, as it exists today, operates poorly in each sense. The potential for this space to meaningfully contribute to the series of diverse landscape spaces at Brandeis University has been significantly compromised by a dominant and poorly conceived mix of pedestrian, private car, and service related vehicular traffic.

Landworks Studio, through a rigorous design process, proposes to reduce and re-order the existing program to encourage new use and to release the power embedded in the space.





Relevant Project Experience

★ On-going Projects

Project Name and Location	Client Name	Client Address and Contact Information
Blackstone Powerplant Renovation Blackstone, MA	Harvard University	175 North Harvard Street, Boston, MA 02134 (617.495.7563)
Worcester Visitors Center and Historical Museum Worcester, MA	City of Worcester	William Wallace, Worcester Historical Museum 30 Elm Street, Worcester, MA 01609 (508.753.8278)
Court Square Press Building Boston, MA	Pappas Properties Inc.	1111 Metropolitan Avenue, Ste. 325 Charlotte, North Carolina 28204 (704.716.3900)
Macallen Building Boston, MA	Pappas Properties	1111 Metropolitan Avenue, Ste. 325 Charlotte, North Carolina 28204 (704.716.3900)
★ Suning International Headquarters Nanjing, China	Suning Appliance Co, Ltd	Santos Prescott Associates 33 Zoe Street San Francisco, CA (617.666.6669)
200 5th Avenue New York, NY	L & L Holding Company, LLC	142 West 57th Street, New York, NY 10019 (212.920.3360)
★ AIA Headquarters Renewal Washington, DC	American Institute of Architects	1735 New York Ave NW, Washington, DC 20006 (202.626.7310)
Museum -LA Mill Renovation Lewiston, ME	Museum L-A	35 Canal Street, Lewiston, Maine 04240 (207.333.3881)
Wood Mill Renovation Lawrence, MA	MassInnovation, LLC	360 Merrimack, Building #5 Lawrence, Massachusetts 01843 (978.683.2901)
Madawaska Land Port of Entry Madawaska, ME	General Services Administration	63 Bridge Ave Madawaska, ME 04756 (207.762.6094)
Boott Cotton Mills	Boott Cotton Mills, LLC	67 Kirk St, Lowell, MA 01852 (978.970.5000)

LEED Certified And LEED Registered Projects

2012	United States Border Crossing	Silver Prospectively
2011	Children's Hospital of Boston	Gold Prospectively
2011	Pell Marine Science Library	Silver
2010	200 5th Avenue	Gold
2008	Macallen Building	Gold
2007	Blackstone Renovation	Platinum

Awards

2010	ASLA Honor Award: General Design Theater Group Retreat, Oxford, ME
2009	ASLA Honor Award: General Design Macallen Building, Boston, MA BSLA Merit Award: General Design Macallen Building, Boston, MA Theater Group Retreat, Oxford, ME Court Square Press Building, Boston, MA Blackstone Power Plant Renovation, Cambridge, MA Green Roof Award of Excellence, Green Roofs for Healthy Cities Macallen Building, Boston, MA
2006	ASLA Excellence Award: General Design Court Square Press Building, Boston, MA
2000	ASLA Merit Award: Park Design Trampoline and Willow Garden, Chaumont Sur-Loire, France
2000	BSLA Merit Award: Park Design Trampoline and Willow Garden, Chaumont Sur-Loire, France

PERSONNEL

KATHERINE FAULKNER, AIA, LEED AP

PRINCIPAL-IN-CHARGE

PROFESSIONAL EXPERIENCE

Principal 2011 - present
NADAAA

Associate Principal 2004 - 2011
Shepley Bulfinch

Associate 2001 - 2004
Ai (Glastonbury, CT)

Architect 1998-2001
Centerbrook Architects (Essex, CT)

Architect 1997-1998
Graham Gund Associates (Cambridge, MA)

Architect 1996-1997
Herault-Arnoud Architects (Grenoble, France)

Architect 1993-1996
James Cutler Architects (Bainbridge Island, WA)

EDUCATION

Master of Business Administration, 2010
Boston University

Master of Architecture, 1993
Harvard University Graduate School of Design

Bachelor of Arts, 1987
Dartmouth College

AFFILIATIONS

American Institute of Architects
Citizen Schools Apprenticeship Program
Boston Public School Site Council
CT GBC Board of Directors, 2001 - 2004

REGISTRATIONS

Massachusetts, Rhode Island, Connecticut
USGBC LEED Professional Accreditation

Katherine Faulkner, AIA, LEED AP, has 20 years of design and management experience in both small scale residential design and large scale planning, academic, institutional, and health-care projects. She has developed expertise on Lean Process Project Delivery, Fast Track Construction, and Public Project Management. A founding member of the CT Green Building Council, she has managed several LEED building projects, including Sherman Hospital, the largest geothermal-conditioned hospital in the U.S.

RELEVANT EXPERIENCE

University of Toronto, Daniels Faculty of Architecture, Landscape, and Design, present
Conceptual design and planning for academic and housing development

University of Melbourne, Faculty of Architecture, Building and Planning, Australia, present
18,000 sqm new architecture school, pending 6-star Greenstar

Bridge Means Restriction, Cornell University/City of Ithaca, present
Urban design plan for various bridges

Yale-New Haven Hospital, New Haven, CT; 2010
Renovation Projects: Atrium, Entrances, Cafeteria, Clinical Spaces
Project Synergy: Master Plan Assessment for New Haven hospitals
Principal in Charge

Carle Foundation Hospital, Urbana, IL; 2010
Master Plan for Two Million Square Feet
Managing Principal

Illinois Wesleyan University, Bloomington, IL; 2009
New Classroom Building
Managing Principal

Colby College, Waterville, ME; 2009
New Science Building
Project Manager

Sherman Health Systems, Elgin, Illinois; 2005 - 2009
650,000 sf Replacement Hospital, 100,000 sf Medical Office Building
Principal/Project Manager

Connecticut Children's Medical Center, Hartford, CT; 2008 - Present
Planning Study for Facilities Assessment; Clinic Utilization Study
Principal/Project Manager

Children's Hospital, Boston, MA; 2008
Expansion on Levels 11, 12 - Constructability Study
Project Manager

Universidad de Los Andes, Santiago de Chile; 2005
300,000 sf New Hospital

Duke University, Durham, NC; 2005
Perkins Library

Quinebaug Valley Community College, Danielson, CT; 2002-2004
New Classroom Building. Addition and Renovation
Project Manager/Designer. 30,000 sf. \$10Mil Construction Cost

Manchester Community College, Manchester, CT
Phase I - Arts and Sciences Wing; 1998-2000
Project Manager. 130,000 sf. \$28Mil Construction Cost
Phase II - Learning Resource Center; 1998-2001
Project Manager. 130,000 sf. \$30 Mil Construction Cost

NADAAA

NADER TEHRANI

DESIGN PRINCIPAL

PROFESSIONAL EXPERIENCE

Principal 2011 - present
NADAAA

Principal 1986 - 2011
Office dA

ACADEMIC EXPERIENCE

Head of Architecture 2007 - present
MIT, School of Architecture and Planning

Associate Professor 1998 - 2007
Harvard University Graduate School of Design

Adjunct Professor 1993 - 1998
Rhode Island School of Design

EDUCATION

Master of Architecture in Urban Design 1991
Harvard University Graduate School of Design

Bachelor of Architecture 1986

Bachelor of Fine Arts 1985

Rhode Island School of Design

Nader Tehrani is a Principal and Founder of NADAAA, as well as the Head of the Department of Architecture at the MIT School of Architecture and Planning. As the founding Principal of Office dA, Nader Tehrani directed twenty-five years of intensive design research, was widely published and exhibited, and received numerous honors including the Cooper-Hewitt National Design Award in Architecture, the American Academy of Arts and Letters Architecture Award, the Harleston Parker Award, over 20 national and regional AIA awards, and 13 Progressive Architecture awards.

RELEVANT EXPERIENCE

University of Toronto, Daniels Faculty of Architecture, Landscape, and Design, present
Conceptual design and planning for academic and housing development

University of Melbourne, Faculty of Architecture, Building and Planning, Australia, present
18,000 sqm new architecture school, pending 6-star Greenstar

Bridge Means Restriction, Cornell University/City of Ithaca, Ithaca, NY, present
Urban design plan for various bridges

Georgia Institute of Technology, Hinman Research Building Renovation, Atlanta, GA, 2011
42,000 sq ft rehabilitation of academic building, pending LEED Silver

Global Financial Services Firm Headquarters Public Spaces, New York, NY, 2009
17,000 sf. Cafeteria, dining, and lounge areas within corporate tower, LEED Gold

Menil Collection Master Site Plan, Houston, TX, 2009
28 acre master plan for museum expansion

Pieter en Pauwel Woonzorgcentrum, Neder-Over-Heembeek, Belgium, 2008
8,000 sq m development of housing, care center and community center

Thunder Stadium, St. Paul, MN, USA, 2008
160,000 sq. ft mixed-used stadium, hotel, commercial programs

H400 Acres Tellapur Integrated Township, Hyderabad, India, 2008
735,000 sq ft, residential tower/low-rise development, LEED-INDIA (100% SD)

Magok Marina, Korea, 2008
760,000 sq m waterfront development plan

Saemangeum Bay Development Plan, Korea, 2008
First Place, Competition for 401 sq km plan

Macallen Building, Boston, MA, 2007
350,000 sf. mixed-use condominium building, LEED Gold

Rhode Island School of Design, Fleet Library, 2006
55,000 sf. Renovation of 3 lower floors of historic bank building into new library

Rhode Island School of Design, New Student Housing, 2006
310,000 sf. Renovation of upper floors of Hospital Trust Bank Building

Development at Collyer Quay, Singapore, 2006
10,000 sq m Hotel, Waterfront Promenade and Public Plaza

West End Pedestrian Bridge, Pittsburgh, PA, 2006
Pedestrian bridge for redevelopment of Pittsburgh waterfront

Master Plan for Kuwait Al Sharq District, Kuwait, 2005
250,000 sq m master Plan of mixed-use neighborhood

Town of Wayland Master Plan, Wayland, MA, 1999
Master Plan for new town center

NADAAA

HARRY LOWD

PROJECT MANAGER

PROFESSIONAL EXPERIENCE

Project Manager 2011 - present
NADAAA

Project Manager 2006 - 2011
Office dA

Project Manager 2003 - 2006
Tanner Hecht Architecture (San Francisco, CA)

Designer 1998-2000
Black River Design (Montpelier, VT)

Designer 1996-1997, 2000
Gray- Organschi Architects (New Haven, CT)

Harry Lowd's professional work has included the design and project management of public, institutional, commercial, and residential projects. With 8 years of experience, he has led teams of consultants, engineers, and other specialists to complete projects in Vermont, Massachusetts, California and Connecticut.

RELEVANT EXPERIENCE

NADAAA projects:

D.C. House, Washington, D.C., present
Saint-Tropez House, France, present
Beacon Hill House, Boston, MA, present
Seaholm Electrical Substation Wall, Austin, TX, present

ACADEMIC EXPERIENCE

Guest Critic in Architecture

Rhode Island School of Design, Yale University,
Wesleyan University, Boston Architectural College,

Visiting Artist

Vermont Studio Center, Johnson, VT (Spring 2000)
Firehouse Gallery Burlington, VT (Fall 1999)

EDUCATION

Master of Architecture, 2003
Rhode Island School of Design

Bachelor of Arts, with Honors 1996
Wesleyan University

Office dA projects:

Basho Restaurant, Boston, MA, 2007-2010
Taipei Pop Music Center Competition, Taipei, Taiwan, 2009-2010
Daniels Faculty of Architecture, Landscape, and Design Competition, University of Toronto, 2009
Library Renewal Masterplan, Tulane University, New Orleans, LA, 2008
Thunder Stadium, St. Paul, MN, 2007
Pappas Penthouse, 2006-2008
Newton House, 2007-2009
Syracuse House Competition, Syracuse, NY, 2008
FF Loft, Boston, MA, 2004-2008
Menil Collection Master Site Plan Competition, Houston, TX, 2008
Macallen Building, Boston, MA, 2002-2007

Projects with other Firms

ICON Housing (San Diego, CA)
135,000 SF four building housing project in San Diego's historic Gas Lamp District
Art Colony (Palm Springs, CA)
120 unit multi-family housing, infill project.
St. Johnsbury School (St. Johnsbury, VT)
Renovation/ addition and consolidation of St. Johnsbury schools into one facility.
Lydall-Westek Factory (St. Johnsbury, VT)
Il Poggio Residence (Washington, CT)
10,000 square foot private residence and gate house
Winn-Rigali Residence (Granville, VT)
Outerbridge Residence (Granville, VT)

KANE ARCHITECTURE

Patrick Kane, Architect

EXPERIENCE: **KANE ARCHITECTURE** (2003-present)
PO Box 2, 1055 Hardwick Farms Rd., E. Hardwick, Vermont 05836

GOSSENS & BACHMAN ARCHITECTS (2001-2003)
85 Granite Shed Lane, Montpelier, Vermont 05602

BLACK RIVER DESIGN (1993-1998 and 1999-2001)
Montpelier, Vermont 05602

KKE ARCHITECTS (1998-1999)
Minneapolis, Minnesota 55401

FINLEY ARCHITECTS (1992-1993)
Fairfield, Connecticut

EDUCATION: **UNIVERSITY OF KENTUCKY** (1984-1989)
Bachelor of Science in Architecture, with distinction

COLUMBIA UNIVERSITY (1992-1993)
Master of Science in Architecture Design, 1993

TEACHING: **UNIVERSITY OF MINNESOTA** (1997)
Adjunct Professor of Architecture

NORWICH UNIVERSITY (1995, 1996, 2006)
Adjunct Professor of Architecture

PUBLICATIONS: "The Getaway Home" by Dale Mulfinger, 2004
"The New Bathroom Idea Book" by Andrew Wormer, 2004
Vermont Magazine, "At Home" by Andrew Wormer, December 2000
Concrete and Masonry Designs, "Award of Excellence," Dec. 2001

OTHER: Registered Architect with the States of Vermont, Arizona
Commissioner, Hardwick Electric Department
Member of the Vermont Build Green Network

AWARDS: Design Merit Award, Vermont AIA, 2009
Design Merit Award, New England AIA 2009



Matthew H. Johnson, P.E.

Associate Principal
781-907-9341
mhjohnson@sgh.com



Registrations

Professional Engineer

Colorado
Connecticut
District of Columbia
Florida
Maine
Maryland
Michigan
Massachusetts
Montana
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
Tennessee
Texas
Vermont
Virgin Islands
Virginia
Washington
Wisconsin

Civil Engineer

California

Other Registrations

NCEES Record (International Registrant)
Structural Engineering Certification Board

Education

Ohio University, Athens, OH
M.S. in Civil Engineering, 1996
B.S. in Civil Engineering, 1994

Experience

Simpson Gumpertz & Heger Inc., Waltham,
MA, from 2004 to present.
DM Berg Consultants, P.C. (DMB),
Needham, MA, from 1997 to 2004

Matt Johnson joined Simpson Gumpertz & Heger Inc. (SGH) in 2004. He is recognized as a broadly experienced consultant in the field of structural design. His engineering experience encompasses a wide variety of building projects including new construction, rehabilitation and adaptive reuse, atypical structures/geometries, public art, and building enclosures. He also lectures and serves as juror at numerous universities.

Structural Rehabilitation, Investigation, and Design

- Internal Revenue Service, Andover, MA. (Investigation, seismic retrofit, and structural engineering for a single-story 1960s era 440,000 sq ft existing building for the Government Services Administration Design Excellence Program.)
- National Grid Campuses, Structural and Enclosure Condition Surveys, Beverly and Worcester, MA. (Nondestructive evaluation, reporting, and schematic renovation designs for early-twentieth-century utility campuses.)
- Student Center, University of Connecticut (Avery Point), Groton, CT. (Structural analysis and design of new, open plan, unique geometry addition to an existing building including large areas of glazing, slate and cedar shingling and exposed concrete)
- Lowell Regional Transit Authority, Solar Photovoltaic Installation, Lowell, MA. (Building, structural, and enclosure evaluations for a 400kW rooftop solar PV array.)
- The Church of Latter-Day Saints, Cambridge, MA. (Investigation of roofing failure due to fire, including temporary shoring/bracing designs, and structural design for reconstruction.)
- New Land Port of Entry, Madawaska, ME. (New structural design of border crossing station between the United States and Canada for the Government Services Administration Design Excellence Program.)
- The First Church of Christ Scientist, Boston, MA. (Existing document review, historic literature review, visual observation, and nondestructive testing of nineteenth- and twentieth-century buildings to develop existing conditions drawings.)
- The Church of Latter-Day Saints, Cambridge, MA. (Investigation of roofing failure due to fire, including temporary shoring/bracing designs, and structural design for reconstruction.)
- Fleet Library, Rhode Island School of Design, Providence, RI. (Structural evaluation of an existing structure for conversion from office to library, including destructive and nondestructive investigations, material testing, and mockup testing for new material application.)
- Trinity Church, Boston, MA. (Structural analysis, direction of testing program for existing materials, and connection design for eight climbing scaffolding masts mounted to main tower for restoration work. With DMB.)
- MATCH – Media and Technology Charter High School, Boston, MA. (Structural analysis of an existing building for conversion to educational institution, including seismic retrofit. With DMB.)

Presentations

- Johnson, M., "Basic Structural Systems," Guest Lecturer in Course CD7102, C2 Studio – M.Arch, "Soundings," Boston Architectural College, Boston, MA, November 2011
- Johnson, M., "From Inspiration to Fabrication," Public Art Discussion Series, New England Foundation for the Arts, 30 November 2010.
- Johnson, M., "Why Computation and the Computer Are Irrelevant...Because It's In the Details," lecture for the Northeastern University American Society of Civil Engineer Student Chapter, Boston, MA, February 2009.

SIMPSON GUMPERTZ & HEGER INC.

41 Seyon Street, Building 1, Suite 500
Waltham, Massachusetts 02453
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www.sgh.com

Boston
Los Angeles
New York
San Francisco
Washington, DC



Susan L. Knack-Brown, P.E.

Associate Principal
781-907-9262
slknack@sgh.com



Registrations

Professional Engineer

Connecticut
Maine
Massachusetts
Pennsylvania
New York
Rhode Island
Vermont

Other

NCEES

Education

Cornell University, Ithaca, NY
B.S. in Civil Engineering (cum laude),
1998

Experience

Simpson Gumpertz & Heger Inc., Waltham,
MA, from 1998 to present.

Selected Publications and

Presentations

- Floyd, N., and S. Knack-Brown, "Detailing Drainage for Bi-Level Copper Roofing," Construction Specifier, June 2011.
- Knack-Brown, S.L., and M.H. Johnson, "Wall Enclosure Improvements", Seminar, Waltham, MA 27 October 2011.
- Knack-Brown, S.L., and C. Williams, "Installing Rooftop Photovoltaics – Are you Opening Pandora's Box and Is It Worth It?", Sasaki, Watertown, MA 24 October 2011.
- Knack-Brown, S.L., and M. Copeland, "Integrating Photovoltaics in a Historic Building Envelope – Massachusetts State House," Build Boston, Boston, MA 18 November 2010.

Ms. Knack-Brown joined Simpson Gumpertz & Heger Inc. (SGH) in 1998. She specializes in the investigation and remedial design of building enclosures. She has participated in and supervised numerous design projects, including the roof reconstruction at the New York State Capitol Building and the copper dome replacement on Boston's landmark Quincy Marketplace. In addition, Ms. Knack-Brown has investigated various buildings, including historic buildings like the Wadsworth Atheneum and John Adams Courthouse. Susan is industrial rope access trained.

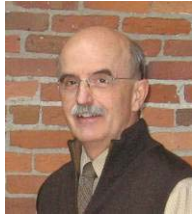
Investigation and Design of Historic Buildings

- Connecticut State Capitol (c. 1878), Hartford, CT. (Non-destructive evaluation of spire on dome to determine feasibility of reinstalling "The Genius.")
- Latchis Building, Brattleboro, VT. (Condition assessment of cast-stone facade.)
- John Adams Courthouse (c.1894), Boston, MA. (Facade evaluation and leakage investigation, including assessment of slate roofs, masonry facade, and wood windows.)
- Massachusetts State House, Boston, MA. (Design of roof reconstruction for historic landmark and construction supervision, including copper, slate, and low-slope membrane roofs.)
- Middlesex County Courthouses, Cambridge, MA. (Evaluation of masonry facades and leakage investigation.)
- Milwaukee City Hall (c. 1895), Milwaukee, WI. (Design of roof and facade reconstruction for historic landmark.)
- New York State Capitol, Albany, NY. (Design and construction supervision of roof reconstruction for historic landmark with multiple roofing systems, including terra-cotta, slate, copper, and membrane roofing, facade repairs, and feasibility study for restoration of two historic staircases, including skylight and laylights.)
- New York State Education Building (c. 1912), Albany, NY. (Investigation of existing terra-cotta and brick facade damage.)
- State University of New York (SUNY) Plaza Building (c. 1914), Albany, NY. (Design of cast stone, granite, and terra-cotta facade repairs.)
- Novartis Facility – Necco Building, (c. 1927), Cambridge, MA. (Evaluation of brick and concrete facades and windows, leakage investigation, and repair designs.)
- Waltham Business Center, Waltham, MA. (Design of masonry facade, low-slope and slate roof repairs to historic mill complex, and testing of window repairs.)

Investigation and Design of Contemporary Buildings

- Brattleboro Recreation Center, Brattleboro, VT. (Condition assessment of cast-stone elements.)
- Ten Eyck Building, Albany, NY. (Investigation of building-envelope leakage on sixteen-story office building.)
- Given Building, University of Vermont, Burlington, VT. (Consulting on interior partitions to improve thermal performance and air leakage of building.)
- Cambridge Rindge and Latin School, Cambridge, MA. (Design of limestone and concrete facade repairs.)
- Boston Center for Rehabilitation and Subacute Care, Roslindale, MA. (Condition assessment of masonry facade and windows.)
- Liberty Mutual Buildings, Boston, MA. (Condition assessment of masonry building and aluminum-panel-clad buildings, and design and construction supervision of masonry, sealant, roof repairs, and window replacement.)

KEY PERSONNEL



David Boehm, P.E., Founder of the firm has 40 years of experience, with degrees in engineering and planning. He has been engaged in consulting engineering in the Burlington area for more than 30 years, with 25 years in private practice. His experience includes project management, engineering for both site and structural projects, and municipal planning. David received the 1983 Young Engineer of the Year award from the Vermont Society of Professional Engineers, as well as the 1990 Vermont Engineer of the Year award, which is selected by all the professional societies within the state. He has served on numerous municipal boards where he held several offices. David has served on the American Society of Civil Engineers, the American Consulting Engineers Council, as the President of the Vermont Society of Professional Engineers, the Vermont AOT Wooden Bridge Advisory Team & Transportation Standards Committee, and has been a member of the National Trust for Historic Preservation. In addition, he has served on the Department Advisory Boards of the University of Vermont and Vermont Technical College, where he has also guest lectured. His teaching credits include Adjunct Professor at UVM, and at Chesapeake College, Maryland.



Robert Neeld, P.E., President, with an engineering degree from the University of Vermont, has 28 years of experience in consulting firms. In a firm of multi-disciplines; civil, structural and permitting, Bob has been integral in making Engineering Ventures one of the most respected structural engineering firms in Vermont. The body of Bob's work encompasses many well known, award winning projects including hospitals, schools and universities, athletic facilities, commercial facilities such as office buildings, museums, ski resorts and heavy timber structures, churches, public buildings, and many unique residences ranging in size up to 25,000sf. Bob's work with historic structures includes having spent time in Mississippi helping out with the aftermath of Hurricane Katrina, and work in Cuba to aid in the historic preservation of churches in that country. Bob has served as the President of the Structural Engineer's Association of Vermont (SEAVT), the Chairman of the Committee to Develop Snow Load Standards for the State of Vermont as well as serving on the development team for the BGS Guidelines, and Chairman for the Town of Williston Historic Preservation Committee. In addition, he is a member of the American Society of Civil Engineers, the Timber Framer's Guild, and he is an Affiliate Member of the American Institute of Architects.



Peter Gibbs, P.E., Vice President, with a Master of Engineering degree from Rensselaer Polytechnic Institute, has been practicing site/civil engineering for over 28 years in the states of New York and Vermont. Peter received his Bachelor of Science in Ocean Engineering and his Bachelor of Science in Civil Engineering at the Florida Institute of Technology. He previously owned his own firm based in Westport, New York, engaging in site development and municipal engineering projects, and was an owner of an Architect/Engineer/Survey/Materials Testing firm in Plattsburgh, New York. The breadth of his experience encompasses municipal facilities, commercial and residential development, surveying, soil/concrete testing, and collaboration directly with architectural firms. Peter's focus has been on efficient stormwater management designs and effective erosion control measures, with substantial experience in earthwork projects ranging from single family lots to grading and new utility systems on 500+ acre sites. He has training by the Corps of Engineers Freshwater Wetlands Delineation at Rutgers University, and he is a Certified Professional in Erosion Control and Sediment Control. Peter is a member of the Construction Specification Institute and the American Water Works Association.



Kevin P. Worden, P.E., LEED AP, and Vice President, is a graduate of Worcester Polytechnic Institute, with Bachelor of Science degrees in both Civil Engineering and Humanities. He was named the 2001 Vermont Young Engineer of the Year. Kevin is a LEED and Sustainability Specialist at Engineering Ventures, contributing 17 years of experience in permitting, civil and structural engineering design. He takes a holistic and innovative approach to projects, grounded in the fundamentals of engineering. Fostering long lasting connections through project collaboration is important to Kevin. Kevin's recent projects with innovative stormwater systems include Burlington Co-housing (Centennial Brook Watershed), the Champlain College Stormwater Master Plan and the Dartmouth College Life Science Center which will store and reuse roof water. He is a past member of the American Society of Civil Engineers, where he held the positions of Treasurer and President, as well as Tau Beta Pi, the National Engineering Society, and Chi Epsilon, the National Civil Engineering Society. In addition to being LEED Accredited, Kevin is a registered New Hampshire Subsurface System Designer. He is a member of the Burlington Development Review Board and a volunteer at the Flynn Theater.



Russ Miller-Johnson, P.E., Senior Engineer, has over 27 years of progressive experience in sustainable structural engineering design including lead engineer roles in management and execution of projects. He has significant experience in assessments, renovations, rehabilitations, additions, expansions, field inspection, and construction engineering for all types of construction. His work also includes performing quality assurance and peer reviews, as well as client administration. Russ has been involved in sustainable projects throughout his practice. He is currently serving on the American Society of Civil Engineers Structural Engineering Institute's Sustainability Committee. In this capacity, he is working on the "Structural Engineer's Guide to Sustainability", has presented a paper on the use of Fabric Formwork as an Alternative Concrete Construction Technology at the 2009 Structures Congress, and is working on a paper concerning structural detailing for enhanced thermal performance. He is a member of Green Globes, as well as the Vermont Green Building Network. He is leading Engineering Ventures' implementation of Life Cycle Analysis and CO₂ load calculations.

Nico Kienzl

Director DDES, LEED AP BD+C, ASHRAE HBDP

PROJECTS

Confidential Commercial Masterplan | MUMBAI, INDIA
PELLI CLARKE PELLI ARCHITECTS

Confidential Headquarters Building | MUMBAI, INDIA
PELLI CLARKE PELLI ARCHITECTS | LEED PLATINUM TARGET

Buffalo Canal Side Development | BUFFALO, NY
EHRENKRANTZ ECKSTUT & KUHN ARCHITECTS

Cleveland Downtown Waterfront Masterplan | CLEVELAND, OH
EHRENKRANTZ, ECKSTUT & KUHN ARCHITECTS

Al Saadiyat Island Masterplan | UAE
PROJECT FOR PUBLIC SPACES

Assembly Square Development | SOMERVILLE, MA
FEDERAL REALTY INVESTMENT TRUST

Manhattanville Campus, Columbia University | NEW YORK, NY
RENZO PIANO BUILDING WORKSHOP WITH DAVIS BRODY BOND ARCHITECTS

State Capitol Masterplan and Stratton Building | SPRINGFIELD, IL
DESTEFANO + PARTNERS

Harvard Common Spaces | CAMBRIDGE, MA
MACK SCOGGIN MERRILL ELAM ARCHITECTS

Campus Masterplan, Duke University | DURHAM, NC
PELLI CLARKE PELLI ARCHITECTS

Transbay Transit Center | SAN FRANCISCO, CA
PELLI CLARKE PELLI ARCHITECTS | LEED SILVER TARGET

Visionaire Residential Tower | NEW YORK, NY
PELLI CLARKE PELLI ARCHITECTS | LEED PLATINUM

PUBLICATIONS

Blurring the Lines | WILEY-ACADEMY, 2006
Mat Buildings & Environment: Examination of a Typology | HARVARD UNIVERSITY, 2005
Smart Materials and Technologies in Architecture | ARCHITECTURAL PRESS, 2005
Evaluating Dynamic Building Materials | HARVARD UNIVERSITY, 2002

TEACHING

Visiting Lecturer | COLUMBIA UNIVERSITY GSAPP, 2008 - PRESENT
Visiting Lecturer | HARVARD UNIVERSITY, 2010
Visiting Instructor | PRATT INSTITUTE, 2002-2009
Instructor + Teaching Fellow | HARVARD UNIVERSITY, 2000-2002

PRESENTATIONS

Integrated Design for Innovative Façades | URBAN GREEN SALON, 2010
Analysis Tools for High Performance Design | UT AUSTIN, 2008
Sustainable Urban Design | COLUMBIA UNIVERSITY, 2008
The Right Tool for the Job: Wows and Woes of Modeling Green Buildings | GREENBUILD, 2007
Crown Hall: A Study in a Building's Sustainable Evolution | AIA COTE, 2007

As a director of Atelier Ten and leader of its global energy analysis practice, Nico consults on a wide variety of large scale residential, commercial and institutional buildings, as well as on masterplan and renovation work in the United States, India, Europe, and the Middle East. Nico has particular experience with the application of advanced building analysis for facade optimization, daylight and shading analysis, and optimization of building systems.

EDUCATION

DOCTOR OF DESIGN
HARVARD UNIVERSITY
GRADUATE SCHOOL OF DESIGN, 2002

MS BUILDING TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 2000

DIPLOM INGENIEUR ARCHITEKTUR
TECHNISCHE UNIVERSITÄT MÜNCHEN, 1995

EXPERIENCE

ATELIER TEN
2002-PRESENT

HARVARD CENTER FOR DESIGN INFORMATICS
RESEARCHER, 1999-2002

ARCHITEKTURBURO HERZOG + PARTNER
DESIGNER, 1995-1997

AFFILIATIONS

GENERAL SERVICES ADMINISTRATION
DESIGN EXCELLENCE PROGRAM
PEER REVIEWER

US GREEN BUILDING COUNCIL
LEED ACCREDITED PROFESSIONAL

Wendy Meguro

Associate LEED AP BD+C

PROJECTS

Croton Water Treatment Plant | BRONX, NY
GRIMSHAW ARCHITECTS | LEED GOLD TARGET

Flinn and Edelman Residence Halls, Hotchkiss School | LAKEVILLE, CT
ROBERT A.M. STERN ARCHITECTS | LEED GOLD

GSA Federal Design Excellence Building | BROWARD COUNTY, FL
KRUECK + SEXTON | LEED GOLD TARGET

Greenspun College of Urban Affairs, University of Nevada | LAS VEGAS, NV
ROBERT A.M. STERN WITH HKS INC. | LEED GOLD

Harsen House | NEW YORK, NY
BKSK ARCHITECTS | LEED SILVER

Housing for AIDS Patients | ST. MARC, HAITI
DXA ARCHITECTS & NON-PROFIT ARCHIVE WITH ATELIER TEN FOUNDATION

Mamaroneck Public Library | MAMARONECK, NY
BKSK ARCHITECTS | LEED SILVER TARGET

Manhattanville Campus, Columbia University | NEW YORK, NY
RENZO PIANO BUILDING WORKSHOP WITH DAVIS BRODY BOND ARCHITECTS | LEED ND PLATINUM TARGET

Medical Research Building, Weill Cornell Medical College | NEW YORK, NY
ENNEAD ARCHITECTS | LEED GOLD TARGET

MGM Mandarin Oriental Hotel | LAS VEGAS, NV
KOHN PEDERSEN FOX WITH ADAMSON ASSOCIATES | LEED GOLD

Museum of the Moving Image | QUEENS, NY
LEESER ARCHITECTURE | LEED SILVER TARGET

PUBLICATIONS

Log Journal; To LEED or not to LEED
JORDAN KAUFFMAN, 2006

Beyond Blue & Red Arrows: Optimizing Natural Ventilation in Large-scale Buildings
MIT, 2005

TEACHING

Faculty | PARSONS THE NEW SCHOOL FOR DESIGN, 2008 - PRESENT

PRESENTATIONS

Double Glass Facade Innovation at Weill Cornell Medical College
URBAN GREEN EXPO, USGBC NY 2010

Analysis Tools for High Performance Building Design; The Future of Sustainable Design
VARIOUS OFFICE TALKS AT ARCHITECTURE FIRMS, 2008, 2009, 2011

Simulation in Practice: Perspectives from Architects and Engineers
SIMBUILD CONFERENCE BY INTERNATIONAL BUILDING PERFORMANCE SIMULATION ASSOCIATION, 2006

JURIES

Design an External Shade Competition | DESIGN BY MANY 2011

As an associate at Atelier Ten, Wendy works on a wide variety of university, government, and laboratory projects that integrate climate-appropriate strategies into their architectural form and system selection. Wendy also leads Atelier Ten's Strategic Sustainability & Carbon Management practice.

EDUCATION

MS, ARCHITECTURE STUDIES, BUILDING TECHNOLOGY
MIT, 2005

B ARCH
UNIVERSITY OF HAWAII AT MANOA, 2003

EXPERIENCE

ATELIER TEN
2005-PRESENT

WALTERS, KIMURA, MOTODA INC.
LANDSCAPE ARCHITECTURE INTERN, 2002-2003

KAJIOKA YAMACHI DESIGN GROUP
PHOTOGRAPHER AND GRAPHIC DESIGNER, 2003

DINMORE & CISCO ARCHITECTS, INC.
ARCHITECTURE INTERN, 2000-2001

AFFILIATIONS

INTERNATIONAL BUILDING PERFORMANCE
SIMULATION ASSOCIATION, NEW YORK CITY
MEMBER

US GREEN BUILDING COUNCIL
LEED ACCREDITED PROFESSIONAL, BD+C

Paul Male Senior Vice President

Mr. Male is Senior Vice President in charge of Faithful+Gould's Boston, MA office. Paul has over 35 years of experience in the New England construction industry working as a Project Manager and Quantity Surveyor in the United States and eight years of experience in the United Kingdom.

Paul's experience includes Program and Project Management, Design, Phase Cost Management, Project Cost Analysis, Scheduling, Claims Analysis, Value Engineering and GMP negotiations for Owners and Project Management and Supervision of general construction projects for general contractors.

Paul has worked on a large variety of major projects throughout the US. His vast experience in facility types range from commercial, hospitality/arts/leisure, industrial/manufacturing, health care, laboratory, to educational. Paul is responsible for design phase cost control of various higher education projects such as University of Michigan, Harvard University, MIT, F.W. Olin College of Engineering, Bates College, Dartmouth College, Duke University, Yale University, and Princeton University to name a few. These projects have varied from renovation to new construction with a construction value range from \$10 to \$400 million.

Selected Project Experience:

- Bridgewater State College Burnell School Renovation
- Bridgewater State College Operations Building
- Bridgewater State College Davis Alumni Center
- Franklin W. Olin College of Engineering
- Bates College Masterplan
- Dartmouth College Visual Arts Center
- Dartmouth College Thayer Dining Hall Renovation
- Fort Lewis College Student Union
- Providence College Campus Building Study
- Mercy College Library Renovations
- Mass College of Liberal Arts
- College of Saint Rose Library Renovations
- Colby College Math and Science Building
- Berkshire Community College Envelope Study
- Hamilton College Emerson Hall
- Worcester State College Admin Building

Education

Bachelor Degree,
Quantity Surveying,
Leeds Polytechnic Institute,
Leeds, UK, 1979

Certificates/Affiliates

Royal Institution of Chartered Surveyors

Years of experience: 35+

Years with F+G: 20

Kevin Dougherty Lead Estimator

Mr. Kevin Dougherty is a Lead Estimator with the Boston office of Faithful+Gould. Previously, Kevin worked as a Senior Estimator with two major Boston area construction management firms for 11 years and for construction cost consulting firms for 10 years. Kevin has also worked as an on-site Project Manager on jobs in both Asia and Africa for 6 years. Kevin has been responsible for leading estimating teams from conceptual design through bidding and buy-out. Additionally, he has provided value engineering, prepared bid analyses and reviewed change orders.

Kevin has gained the necessary skills to effectively assist in managing construction costs through his experience on hundreds of projects in the US and abroad. Throughout his 25+ years of construction experience, he has provided estimating services on projects ranging from \$30,000 to over \$850 million in construction value.

ACADEMIC

- **UMass, New Student Residences, Amherst, MA,** 512,000sf of new construction. Still in design, \$160,000,000.
- **Boston University, Law School,** Still in design, 248,000 of new addition and reno existing, \$100,000,000.
- **Boston University, New Student Center,** Still in design, 122,000sf of new construction, \$54,000,000.
- **M.I.T., Music and Theater Arts, Cambridge, MA.** Remodel existing facility, \$4,000,000.
- **Boston College Law School Academic Building, Newton, MA.** 60,000 sf of new construction including classrooms, study areas, and lecture halls.
- **Boston College Law School Library, Newton, MA.** Law Library (79,000 s.f.) contains reading areas, carrel seating, and computer laboratory.
- **U. of Connecticut, Business School, Storrs, CT.** 98,670sf of new construction, \$19,000,000.
- **U. Mass – Boston, Campus Center, Boston, MA.** 335,000sf of new construction, \$39,000,000.

Education

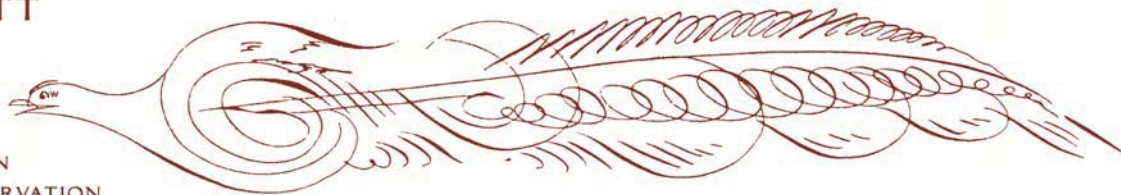
Bachelor of Science,
Construction Management,
University of Wisconsin-Madison
Graduated 1981

Years of experience: 30+

Years with F+G:

LIZ PRITCHETT ASSOCIATES

HISTORIC PRESERVATION
ARCHITECTURAL CONSERVATION



Liz Pritchett

EDUCATION

University of Vermont, Master of Science in Historic Preservation, 1992

University of Virginia, Graduate Program in Art History, 1970

Middlebury College, Bachelor of Arts, 1969

PROFESSIONAL ACTIVITIES

1992 - PRESENT

**OWNER-PRINCIPAL, LIZ PRITCHETT ASSOCIATES
MONTPELIER, VERMONT**

1985 - 1992

PRIVATE CONSULTANT

Historic Preservation and Architectural Conservation services for municipalities and private sector clients, specializing in inventory and assessment of historic resources, and treatment recommendations for deteriorating structures. Competent in National Register nominations, technical building assessment reports, finishes analysis, grant writing, interpretive displays, archival photography, and preservation planning for private and community-based projects.

REPRESENTATIVE LIST OF PROJECTS

NATIONAL REGISTER NOMINATIONS

Marlboro College Campus, Marlboro, Vermont, 2009-2010

Downtown Newport Historic District, Newport, Vermont, 2005-2006

Multiple Property Documentation (MPDF), *Organized Summer Camping in Vermont*, 2003

Barnes Camp, Smuggler's Notch, Stowe, Vermont, 1996

Bennington Fish Culture Station (1917), Bennington, VT, 1993

Multiple Property Documentation (MPDF), *Fish Culture in Vermont*, 1993

The Giles Chittenden Homestead (1796), Williston, VT, 1993

Multiple Property Documentation (MPDF), "Town Halls in Vermont," 1991

HISTORIC RESOURCE SURVEYS

International Style Architecture in Vermont, Statewide, 2003

West Lebanon (NH) Historic Resources Survey, Lebanon, New Hampshire, 1995-96

Supervisor, Burlington (VT) Old North End Historic Structures Survey, 1995

Supervisor, Bennington (VT) Village Historic Resource Survey, Part II, 1988

Field Historian (Vermont); Greensboro, Hardwick, Stowe Historic Resource Surveys, 1985-88

PRESERVATION PLANNING

Marlboro College, Preservation Plan as part of Getty Heritage Grant, Marlboro, VT 2008-10
Bennington College, Preservation Plan as part of Getty Heritage Grant, Bennington, VT 2005-07
Champlain College, Historic Resource Survey and Preservation Plan, Burlington, VT, 2003-04

TEACHING

Lecturer, University of Vermont, Historic Preservation Program, 1994, 1995
Adjunct Professor, Norwich Department of Architecture, 1992

REHABILITATION INVESTMENT TAX CREDIT APPLICATIONS

Windsor Prison / Old Windsor Village, Windsor, VT, (three 19th -20th century structures), 2010
Waits River Housing, Bradford, VT, (six 19th century structures), 2006-2007
Waugh Opera House (c. 1892), St. Albans, VT, 2005
206 and 224 Main Street (c. 1830 and c. 1880), Vergennes, VT, 2003
Green Mountain Seminary (1869), Waterbury, Vermont, 2000
Jones Brothers Granite Shed (1895), Barre, Vermont, 2000
Exner Block (c. 1850/ c.1905), Bellow Falls, Vermont, 1999
St. Johnsbury House (c. 1850/1913), St. Johnsbury Vermont, 1999
Park Place (c.1900), Burlington, Vermont, 1998
Biscuit Factory (1915), Burlington, VT, 1995
The Cobblestone/ Winslow Ward House (c.1860), Brattleboro, VT, 1994

TECHNICAL REPORTS

Edward Wells House / Delta Psi Fraternity (1892), 61 Summit Street, UVM, 2009
Middlebury College, Breadloaf Campus, Building Foundation Survey, 2005
Ornamental Railing Study for Historic Bridges, Bridge Research Component, VAOT, 1998
Unitarian Church of Montpelier: Historic Preservation Plan, 1997-98
Preservation Trust of Vermont - Architectural Conservation Assessment Reports:
 MacDonough Webster Lodge (c. 1850), Jericho, Vermont, 1998
 Giles Chittenden Homestead-Catamount Family Center, Williston, VT, 1995
 Essex Center Burial Ground, Essex Center, VT, 1994
Montpelier City Hall Auditorium: Finishes Analysis, Paint & Plaster Recommendations, 1993
Property Easement Documentation for the Vermont Land Trust:
 Paramount Theater, Rutland, VT, 2000; The Park House, N. Bennington, VT, 1994;
 The Judge House, Shoreham, VT, 1991; The Langeway Farm, Ferrisburg, VT, 1990
The Justin Morrill Homestead (1848-51), National Historic Landmark, Strafford, VT, 1991

COMMUNITY BASED PROJECTS

White River Junction Design Review Guidelines, 2001
Fundraising/ Project Coordinator, Montpelier City Hall Auditorium Improvement Committee, 1992-95; recruited the Committee of 100, a group of advocates of the project; planned community-based events project prior to the Nov. 1992, \$130,000 bond vote for auditorium restoration.
"Views Through Time: Walking and Driving Tours of Historic Rutland and the Region," two walking tours, UVM Graduate School project with Rutland Area Cultural Alliance, 1992

IMPACT ASSESSMENT REPORTS (Section 106, 248 and 250)

Kingdom Community Wind, Lowell, VT, 2009-2010
UPC Wind / FirstWind, Sheffield, VT, 2005-2008.
Vermont Citizens for Safe Energy (reviewing portions of the VELCO Northwest Vermont Reliability Project), 2004.

City of Montpelier, US Dept. of Agriculture Rural Development, Housing Rehab., 2003-2008.
University Commons, University of Vermont, 2004-2006
Vermont Housing and Conservation Board, Programmatic Agreement review, 1998-2011
Fletcher Allen Health Care Renaissance Project, Burlington, Vermont, 2000-2001
Shelburne-South Burlington, U.S. Route 7 Corridor, 1997-98
Vermont Route 7 Corridor Study, Bennington and Rutland Counties, 1996
Montpelier Riverfront Redevelopment Project, Montpelier, VT, 1996
Smugglers' Notch Scenic Highway Corridor Management Plan, Stowe, VT, 1995-96
Vermont Agency of Transportation -Roadway, Bridge, &Transportation Path Projects, 1993-2002

INTERPRETIVE PROJECTS

Montpelier Riverfront, designed seven interpretive panels for transportation path, 1997
Bennington Pathway, Signage Master Plan and Design of Interpretive Signs, 1994-95
Fish Culture in Vermont, outdoor display panels at three historic fish hatcheries, 1993

GRANT WRITING & FUNDRAISING

Unitarian Church of Montpelier, wrote \$6,000 grant awarded for stencil analysis in Sanctuary, 1998
Fundraising Coordinator for Montpelier City Hall Auditorium Improvement Project to meet
\$55,000 Challenge Grant awarded by National Life Insurance Company, 1995
Montpelier City Hall, wrote \$15,000 grant awarded for repainting based on historic colors, 1993
So. Woodbury Church, Woodbury, VT, wrote restoration grants awarded totaling \$10,000, 1986

PUBLICATIONS

"The Beaded Board Tradition", *Old House Journal*, Dovetail Publishers, Spring, 1993
"The Architectural History of Middlebury" *The Historic Architecture of Addison County*,
Vermont Division for Historic Preservation, 1992
"Views through Time: A Walking Tour of Historic Downtown Rutland", Rutland Area Cultural
Alliance, 1992, UVM graduate school class project.

PRESENTATIONS

*The Secretary of the Interior's Standards and Solving Historic Preservation Issues during Project
Development*, Vermont Environmental Law Seminar, 1997.
Conservation Techniques for Summer Camps, panelist at Greensboro (VT) Historical Society Annual
Meeting - Greensboro Camps and Builders: Then and Now," 1992
The History and Architecture of the Town Hall in Vermont, presented to Montpelier Kiwanis and
Rotary Clubs, 1992
*Three Issues of Architectural Conservation: Research, Documentation, and Interpretation at the
Justin Morrill Homestead*, UVMHP summer internship presentation, 1991

PROFESSIONAL CERTIFICATION

Preservation Leadership Training Institute, National Trust, Marshall, CA, 2002
36CFR 61 qualified Architectural Historian, National Park Service, Washington, DC

MEMBERSHIPS

Center for Research on Vermont, University of Vermont, Associate Member
National Trust for Historic Preservation

BOARDS AND COMMUNITY SERVICE

Barre Opera House, Barre, Vt., Trustee and House Committee Chair, 1993 - 1999
Woodbury Elementary School, Woodbury, Vt., School Board Director, 1986-90

Education

1994	Master of Landscape Architecture, Harvard Graduate School of Design
1986	Bachelor of Landscape Architecture, Bachelor of Fine Arts, Rhode Island School of Design

Professional Experience

1996 - present	<p>Founding Principal, Landworks Studio, Inc., Boston, MA</p> <p>Director of Design for every built project, including:</p> <p><i>Court Square Press Building, Boston, MA</i></p> <p><i>Macallen Building, Boston, MA</i></p> <p><i>Theater Group Retreat, Western Maine</i></p> <p><i>Brandeis University, Fellows Garden, Waltham, MA</i></p> <p><i>Brandeis University, Science Center Complex, Waltham, MA</i></p>
1994 -1996	<p>Senior Designer, Martha Schwartz, Inc., Cambridge, MA</p> <p><i>Department of Housing and Urban Development Headquarters, Washington, DC</i></p> <p><i>Jacob Javitz Plaza, New York City, NY</i></p> <p><i>U.S. Federal Court House, Minneapolis, MN</i></p> <p><i>Gifu Housing, Gifu, Japan</i></p> <p><i>Littmann Wedding, Nutley, NJ</i></p>
1987 -1992	Payette Associates, Inc., Boston, MA
1986 -1987	The SWA Group, Boston, MA

Teaching

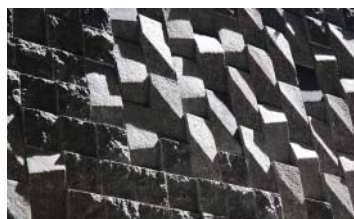
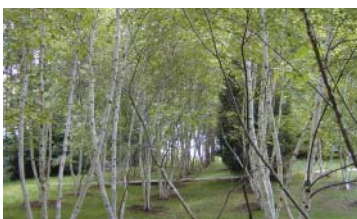
1991-present	Rhode Island School of Design, Landscape Architecture Department, Visiting Critic
1997-2010	Harvard Graduate School of Design, Landscape Architecture Department, Design Critic
	Role: Core Studio Instructor and Coordinator, Landscape Representation

Awards

2010	Boston Society of Architects Honorary Membership	
2010	ASLA Honor Award: General Design	<i>Theater Group Retreat, Oxford, ME</i>
2009	ASLA Honor Award: General Design	<i>Macallen Building, Boston, MA</i>
	BSLA Merit Award: General Design	<i>Macallen Building, Boston, MA</i>
		<i>Theater Group Retreat, Oxford, ME</i>
		<i>Court Square Press Building, Boston, MA</i>
		<i>Blackstone Power Plant Renovation, Cambridge, MA</i>
	Green Roof Award of Excellence, Green Roofs for Healthy Cities	
		<i>Macallen Building, Boston, MA</i>
2006	ASLA Excellence Award: General Design	<i>Court Square Press Building, Boston, MA</i>
2000	ASLA Merit Award: Park Design, BSLA Merit Award: Park Design	
		<i>Trampoline and Willow Garden, Chaumont Sur-Loire, France</i>

Registration

Registered Landscape Architect: MA (#1166), ME, PA, RI, NY, VA



Education

1980	Master of Landscape Architecture, University of Pennsylvania
1972	Bachelor of Landscape Architecture, Louisiana State University

Professional Experience

2003-Present	Landworks Studio, Inc., Boston, MA <i>Macallen Building, Boston, MA</i> <i>Blackstone Powerplant Renovation, Cambridge, MA</i> <i>AIA Headquarters Renewal, Washington DC</i> <i>200 5th Avenue, New York, NY</i>
1997-Present 1992-1997	C. Timothy Baird Landscape Architect Hargreaves Associates, San Francisco, CA <i>Guadalupe River Park, San Jose, CA</i> <i>Crissy Field, San Francisco, CA</i>
1990-1991	Peter Walker and Partners, San Francisco, CA
1978-80; 88-90	Hanna/Olin, Ltd., Philadelphia, PA
1983-1987	Kuwaiti Engineer's Office, Kuwait City, Kuwait
1980-1981	Anthony Walmsley & Co., New York, NY and Philadelphia, PA
1977-1978	The Kling Partnership, Philadelphia, PA
1973-1977	The Collins DuTot Partnership, Philadelphia, PA

Teaching

2000-present	The Pennsylvania State University, Department of Landscape Architecture, Associate Professor
2008	The Ohio State University, Richard W. Trott Distinguished Visiting Professor
1998-2000	Texas Tech University, Department of Landscape Architecture
1989	Harvard University Graduate School of Design
1988	University of Pennsylvania Graduate School of Fine Arts
1982	Louisiana State University School of Landscape Architecture

Publication

"Environmental Art as Sustainable Design: Mill Creek Canyon Earthworks and Effigy Tumuli Sculptures, in the CELA Conference Proceedings, Spring 2004, Clemson, SC

"A Composed Ecology," in Landscape Architecture Magazine, March, 2003, Washington, DC

"Sacred Ground: Must Sustainable Landscapes Mimic the Form and Spatial Organization of Nature?" in CELA Conference Proceedings, September, 2002, SUNY Syracuse, NY

Registration

Registered Landscape Architect: CA, PA, NY, and AL





Pearson & Associates

MECHANICAL & ELECTRICAL ENGINEERS

P.O. Box 610, Stowe, Vermont 05672

Phone (802) 253-9607 FAX (802) 253-9290

e-mail: pearson@stowevt.net

Edward E. Pearson, P.E.

Education : Bachelor of Science - Mechanical Engineering
GMI Engineering and Management Institute, 1967
Master of Science - Engineering Administration
Syracuse University, 1971

Registration : Professional Engineer - Mechanical & Electrical
Colorado, Maine, New Hampshire, New York, Vermont

Licenses: Real Estate - Vermont
Master Electrician
Pilot - Instrument Rated

Professional Associations: Past Chapter President - American Society of Heating, Refrigerating
Air Conditioning Engineers (ASHRAE)
Member - National Fire Protection Association (NFPA)
Member - The Institute of Electrical and Electronics Engineers (IEEE)
Past Regional Vice Chairman & Society Committee for Technical, Energy
and Government Activities - The American Society of Heating,
Refrigerating Air Conditioning Engineers (ASHRAE)

Civic Groups : Past Trustee and Board of Directors - Copley Hospital, Morrisville, Vermont
Past Board of Directors - Copley Manor Nursing Home, Morrisville,
Vermont
Past Member - Stowe Planning Commission
Past President & Board of Directors - Stowe Rotary Club
Past Member - State of Vermont Task Force on Energy Conservation
Past Trustee - Stowe Community Church

Publications: Establishing a Controlled Maintenance System
Indoor Climate Control for Natatoriums
Numerous papers on system maintenance and energy control

Awards : State of Vermont Engineer of the Year - 1991
Rotary Club Merit Award - 1988
Paul Harris Fellow - 1984
ASHRAE Region I, 1994 First Place Technology Award for Alternative
Energy Project (Lyndon Town School)
Lamoille County Planning Commission - 1995 Excellence in Project
Design (Stoweflake Inn & Resort - Geothermal Heat Pump System)



Professional Experience:

Mr. Pearson worked as a Plant Engineer in industry for 10 years prior to working with design - build mechanical and electrical companies for 12 years as Chief Engineer. Prior to locating in Vermont, his consulting firm had offices in both New York and Colorado.

Mr. Pearson moved to Vermont and became Director of Mechanical and Electrical Engineering for a large multi-discipline Consulting Engineering Firm. As Director of Mechanical and Electrical Engineering, he was responsible for the engineering and design work of the Mechanical and Electrical Engineering Department.

After five years as Director of Mechanical and Electrical Engineering, Mr. Pearson decided to once again devote full time to Pearson & Associates, a Mechanical and Electrical Consulting Engineering Firm.

Mr. Pearson has provided electrical and mechanical engineering services on projects which have included new construction and renovation of existing buildings and complex industrial mechanical and electrical projects. These services relative to electrical and mechanical projects include:

- Biomass fueled heating systems; Co-generation system design
- Electrical power distribution designs; including load calculations, short circuit fault requirements, switchgear and buss design
- Electrical control of equipment; Lighting layout and design
- Demand control studies and design of demand control equipment
- Design and selection of stand-by power equipment
- Energy audits, heat loss and heat gain studies
- Heating, ventilation and cooling design and layout; Control design for environmental systems
- Design of piping and plumbing systems
- Design of fire protection systems; Design of alarm systems
- Design and selection of alternate fuel systems
- Design, specifications and equipment selection
- Contractor selection, negotiation and construction phase activities



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Alan S. Gould, Electrical Engineer

Education: Bachelor of Science - Electrical Engineering
University of Vermont, 1989

Associations Member - The Institute of Electrical and Electronics Engineers, Inc.
(IEEE)

Professional Experience:

Mr. Gould began his Electrical Engineering career while attending University of Vermont as an intern with Green Mountain Power where he performed a loss analysis study of the power distribution systems. After graduation, he worked as an electrical design engineer for a large multi-discipline engineering firm in the Burlington Vermont area. His experience included all aspects of commercial, industrial and institutional electrical systems.

Mr. Gould was the president and operated a mid-size electrical contracting firm for ten years. He managed up to twenty employees and received practical experience related to the installation and design of electrical systems. His work experience included commercial electrical design and installation, utility infrastructure design and installation, residential, health care, and industrial electrical installations and supervision.

After sale of his Company, Mr. Gould continued his Electrical Engineering career with a manufacturer of large power transformers and reactors in South Burlington. Mr. Gould is a co-patent holder for design and manufacturing techniques of a low loss dry-type epoxy-cast power transformer utilizing an amorphous metal core. While at DynaPower, he managed the electrical design team of Ultracast Power Transformers.

A desire to return to design and consulting electrical engineering brought him to Pearson & Associates thirteen years ago, where he currently manages the day-to-day operations of the firm and the engineering group, while continuing to design electrical systems for all types of applications.

His experience and expertise includes:

- ☒ Design of efficient and cost-effective Power and Lighting Systems for all project types.
- ☒ Design of Fire Alarm, Security alarm, and Access control Systems.
- ☒ Design of Data Processing and Communications Networking Systems.
- ☒ Design of Emergency and standby Power Systems, including PV systems.
- ☒ Electrical Specification writing for the contracting of Commercial and Industrial Projects.
- ☒ Field surveys, infrastructure assessment, and cost estimating of electrical installations.



Pearson & Associates

MECHANICAL & ELECTRICAL ENGINEERS

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Jerry L. Marshall, P.E., Mechanical Engineer

Education: Bachelor of Science – Mechanical Engineering
University of Vermont, 1994

Associations: American Society of Heating Refrigerating and Air Conditioning Engineers
(ASHRAE) since 2004













**Continuing
Education
Courses:** 2003 – Better Buildings by Design Seminar
2004 – Trane HVAC Design & Analysis Training Seminar
2006 – Mitsubishi Electric City Multi Diamond Designer Level 1 Seminar
2007 – Basic Electricity for the Non-Electrician Seminar
2008 – Watts Radiant Engineering and Design Method Seminar
ASHRAE 90.1 Seminar(s)

Professional Experience:

After graduating from the University of Vermont, Mr. Marshall started his Mechanical Engineering design career with a consulting engineering firm in Vermont as a Mechanical Engineer. There he received extensive practical experience in the design of mechanical and plumbing systems for institutional buildings while working as the Mechanical lead on several different projects.

His experience and expertise includes:

- Preparation of engineering proposals.
- Heating, ventilation, and cooling design and layout for institutional and commercial buildings.
- Design of piping and plumbing systems including systems for boiler and chiller plants.
- Design of geothermal heating and cooling systems.
- Mechanical equipment selection and scheduling.
- Equipment specifications, system control layout and sequence of operations.
- Energy and feasibility studies.
- Construction administration services including: contractor selection, equipment submittal review and site analysis.

Task	Week							
	1	2	3	4	5	6	7	8
Project Definition								
Kick off Meeting								
Develop Criteria for Scenario Comparison								
Consultant Sub Team Analyses (all day site visits)								
Site Systems Review								
Existing Bldg Conditions Review								
Area Development Data Gathering								
State Offices Program Review								
Concept Development								
Working Meetings (via TelCon)								
A/E Sub Team Documentation								
Planning Concepts Design (3-4 Scenarios)								
Submit Prelim Package to Cost Team								
Progress Presentations								
Progress Meetings with Client Group								
A/E Sub Team Work Sessions								
Planning Concepts Development								
Rehabilitate Waterbury Complex								
Multi-Use								
New Construction								
Development of Draft Scenarios/Client Review								
Submit Updated Package to Cost Team								
Review/Revision Period								
Final Submission March 2, 2012								

 Teleconference

 Formal meeting

CERTIFICATE OF COMPLIANCE

RFP/PROJECT: Waterbury Office Complex – Feasibility Study
DATE: November 10, 2011

CERTIFICATE OF COMPLIANCE

This form must be completed in its entirety and submitted as part of the response for the proposal to be considered valid.

TAXES: Pursuant to 32 V.S.A. § 3113, bidder hereby certifies, under the pains and penalties of perjury, that the company/individual is in good standing with respect to, or in full compliance with a plan to pay, any and all taxes due to the State of Vermont as of the date this statement is made. A person is in good standing if no taxes are due, if the liability for any tax that may be due is on appeal, or if the person is in compliance with a payment plan approved by the Commissioner of Taxes.

INSURANCE: Bidder certifies that the company/individual is in compliance with, or is prepared to comply with, the insurance requirements as detailed in Section 7 of Attachment C: Standard State Contract Provisions. Certificates of insurance must be provided prior to issuance of a contract and/or purchase order. If the certificate(s) of insurance is/are not received by the Office of Purchasing & Contracting within five (5) days of notification of award, the State of Vermont reserves the right to select another vendor. Please reference the RFP and/or RFQ # when submitting the certificate of insurance.

CONTRACT TERMS: The undersigned hereby acknowledges and agrees to Attachment C: Standard State Contract Provisions and Attachment D Additional Terms and Conditions for Architectural and Engineering Services.

TERMS OF SALE: The undersigned agrees to furnish the products or services listed at the prices quoted. The Terms of Sales are Net 30 days from receipt of service or invoice, whichever is later. Percentage discounts may be offered for prompt payments of invoices, however such discounts must be in effect for a period of 30 days or more in order to be considered in making awards.

FORM OF PAYMENT: Would you accept the Visa Purchasing Card as a form of payment? _____ Yes ☒ No

*We are unfamiliar with this as a form of payment and would request clarification

Insurance Certificate(s): Attached _____

Will provide upon notification of award ☒ _____

Delivery Offered: within 5 days after notice of award

Terms of Sale: NA
(If Discount)

Quotation Valid for: 90 days

Date: 12.05.11

Name of Company: NADAAA Inc.

Contact Name: Kathrine Faulkner

Address: 1920 Washington Street

Fax Number: _____

Boston, MA 02118

E-mail: kfaulkner@nadaaa.com

By: _____

Signature (Bid Not Valid Unless Signed)

Name: Nader Tehrani, Principal and President
(Type or Print)

All returned quotes and related documents must be identified with our request for quote number.